

CHUMAK, M.D.; BLOKHINA, T.e.P.

Effect of high pressure on the accumulation of organic acids
during glucose fermentation by barotolerant bacteria.
Mikrobiologiya 33 no.2:230-235 Mr-Ap '64. (MIRA 17:12)

1. Institut mikrobiologii AN SSSR.

CHUMAK, M.D.; TARASOVA, N.V.; BLOKHINA, T.P.

Qualitative composition of organic acids formed during glucose
fermentation by pressure-resistant bacteria. Mikrobiologija 33
no.4:565-568 Jl-Ag '64. (MIRA 18:3)

1. Institut mikrobiologii AN SSSR.

GROMYKO, Ye.P.; BUKHINA, T.P.

Conditions for the survival of Azotobacter in Podzolic soils.
Izv. AN SSSR. Ser. biol. no.6:924-927 N-D '64.

(MIRA 17:11)

I. Institute of Microbiology of the Academy of Sciences of the
U.S.S.R., Moscow.

BLOKHINA, V.

Agriculture - Study and Teaching

Teaching methodology in three-year courses in crops and animal husbandry. Dost. sel'khoz. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

BLOKHINA, V. A.

USSR/Metals - Testing

Jul 50

"Identity of the Heat-Resistance Indexes Obtained by the Creep Test and Continuous Hardness Test," K. I. Portnoy, N. M. Sadchikova, V. A. Blokhina.

"Zavod Lab" Vol XVI, No 7, pp 858-862

Presents experimental data on investigation of dependence of heat resistance of alloys on their composition by methods of tensile and hardness tests under continuous load at temperatures of 20 and 300°. Investigates five cast alloys: Mg-Al, Mg-Ce, Mg-Ca, Mg-Sb and Al-Mg. Demonstrates that method of continuous hardness test characterizes creeping property of alloys and therefore application of this method, instead of creep test, may accelerate research work on new heat-resisting alloys.

166T62

1-7 EXC

Properties of cadmium-base bearing alloys.
A. M. Kuznetsov and V. A. Slobodkin. *Vestn. Akad. Nauk SSSR*
Techn. Nauk, No. 1, 1959, pp. 70-76. Ref. Zav., Md., 1959, No.
9002.—The structure of Cd-Ni alloys contg. 0.6-3.0% Ni
consists of equiaxed crystals of the intermetallic compd.
Cd-Ni (microhardness 160 kg./sq. mm.) and eutectic Cd +
Cd-Ni (microhardness 28 kg./sq. mm.). The Brinell hard-
ness (H_B) of Cd-Ni alloys increases with the increase of Ni
content from 13.1 at 0.6% of Ni to 40.0 at 3% Ni content at
room temp. With increase of temp. of the test, H_B decreases
to 17.0 for the alloy contg. 3% Ni at 150°, but still remains
above the hardness of the regular bearing alloy B-83 at the
same temp. for all Cd-Ni alloys contg. more than 1% Ni.
 H_B of a Cd-Ni alloy contg. 1.3% Ni decreases by 40% and
for the B-83 alloy by 76%. The Cd-base bearing alloys
contg. Ni up to 2% could be used in heavily loaded bearings
at v.s. working at high speed.

A. A. Kuznetsov

P.Y.M.T.

12077777, V. A.

AUTHOR: Tikhova, N.M., Candidate of Technical Sciences and
Blokhina, V.A., Engineer. 129 - 8 - 4/16

TITLE: Influence of notches on the mechanical properties of the
(magnesium) alloy ML5. (Vliyanie nadreza na mekhanicheskie
svoystva splava ML5.)

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and
Metal Treatment), 1957, No.8, pp. 16 - 19 (U.S.S.R.)

ABSTRACT: This alloy, which has a high strength and ductility, and a high notch sensitivity at room temperatures is extensively used in the Soviet Union. The aim of this paper was to investigate the influence of notches on the mechanical properties of this alloy in the heat-treated state at room and elevated temperatures. The composition of the alloy is: 8.7 - 9% Al, 0.5% Zn and 0.4 - 0.46% Mn. It was established that a ring-shaped notch leads to a considerable decrease in strength of the alloy at room temperature and at 100 C. However, at temperatures between 100 and 150 C the strength of the notched specimens remains equal at 22.5 - 23 kg/mm² and is higher than the strength of smooth specimens, which drops uniformly in this temperature range. On increasing the temperature to 175 C, the strength of the smooth specimens is 18 kg/mm². Long duration tests until fracture at 150 - 200 C showed that a notch increases the time to failure of the specimen. The

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Influence of notches on the mechanical properties of the (magnesium) alloy M75. (Cont.) 129 - 8 - 4/16

influence of the notch in this material depends on the test temperature; at room temperature and at 100 C the strength of notched specimens is lower, whilst at 150 C and higher temperatures the performance of the notched specimens is better than that of smooth specimens.

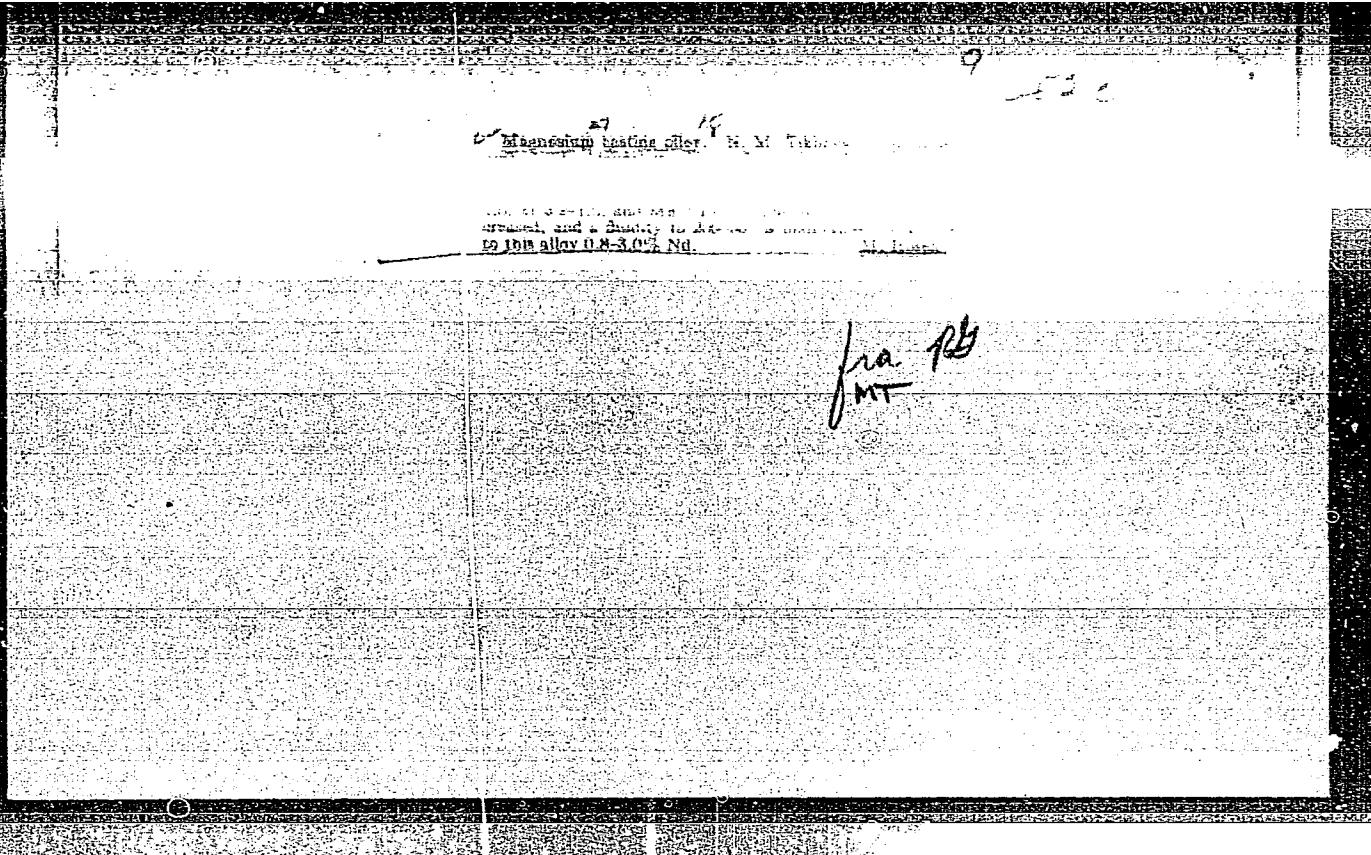
There are 3 tables.

AVAILABLE:

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

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✓ Correction casting strip with a magnetic particle
test. S.M. 21st June 1964

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610002-5"

IL'INA, L.I.; BLOKHINA, V.D.; USPENSKAYA, M.S.

Effect of ionizing radiations on proteins of structural elements of hepatic cellular [with summary in English]. Med.rad. 2 no.4:23-30
Jl-Ag '57. (MIRA 10:11)

(ROENTGEN RAYS, effects,
on liver proteins (Rus))
(LIVER, effect of radiations,
x-rays, on proteins (Rus))
(PROTEINS, metabolism,
liver, eff. of X-rays (Rus))

BLOKHINA, V. A.

PAGE 1 BOOK EXPLANATION 407/177

Author's name: N.S.N. Institut gosudarstvennoi i analiticheskoy khimii
 Relyashchye elementy i polucheniye, analiz, primeneniye (Rare Earth Elements). Extraction, Analysis and Application. Moscow, Izd-vo Akad. Nauk.
 1958. 331 p. 2,200 copies printed.
 By: M.I. B. I. Prochilov, Professor; Material. Soveti I. P. Alimardanov,
 of Chemical Sciences, USSR Academy of Sciences; I. N. Zaslavskiy, Doctor
 of Chemical Sciences, N. V. Kostomarov, Candidate of Technical Sciences;
 Chemical Sciences, and Yu. S. Savchenko, Candidate of Chemical Sciences;
 M. M. Savchenko, Candidate of Chemical Sciences;

PURPOSE: This book is intended for scientists, chemists, teachers and students
 of higher educational institutions, chemical and industrial engineers and
 other persons concerned with the extraction, preparation, properties and
 rare earth elements.

CONTENTS: This collection contains papers presented at the June 1956 Conference
 on Rare Earth Elements at the Institute of Geochemistry and Analytical Chemistry
 of the USSR Academy of Sciences. The articles discuss new methods of separating rare earth elements, methods of preparing
 rare earth oxides, ion exchange chromatography, chemical analysis, methods of processing
 editorial applications of rare earths, data from contributions of some in-
 elements, rare earth deposits, Soviet scientists who are studying rare earth
 elements, rare earth minerals, methods and the preparation of oxides
 and salts, rare earth elements and especially Y. A. Osipov, who first obtained the
 molecular compounds of three elements and separated many complex
 mixtures of rare earth elements in the three states, separated many complex
 mixtures of rare earth elements and determined their specific properties.

NAME OF CONTRIBUTOR:
New Earth Elements

Prochilov, A. I., and A. A. Shaboda (Chairmen of Conference); M. I. B. I. Prochilov,
 Director of Organic Chemistry at IGGKh. Rare Earth Elements as Catalysts. 14 pages
 Organičeskaya Khimiya. Oxide of Cerium, Lanthanum and Samarium. 307

Savchenko, Yu. S., M.A. Kostenko, and T. I. Tsvetkov. Preparation of
 Lanthanum Iodide. Iodide of Cerium, Lanthanum, and Samarium. 14 pages
 Iodid Lantana. [Proceedings of International Institute Iodid. P. E.
 Lantophore. 1958]. Applications of Rare Earth Elements in the Chemistry
 of Lanthanides. 324

Osipov, Y. A., and V.A. Blokhin. [TIN-ALL-SILIC Acidic Research
 Institute of Artificial Materials] The Use of Rare Earths for Alloys
 Magnesium Cast Alloys. 203

AVAILABILITY: Library of Congress (00172, 22435)

NM/101
 23-3-59

Card 11/11

BLOKHINA, V. A.

PAGE I BOOK EXPIRATION

SOV/416

Razsvetnoye sverobol'shivye po rukam reditish metalov. Izd. Naukova, 1957

Perv. All-Union Conference on Rare-Metal Alloys. (Rare Metals and Alloys) Transactions of the

438 p., 3,150 copies printed. Moscow, Metallurgizdat, 1960.

Sponsoring Agency: Academy of Soviet SSR. Institute metallurgy, USSR

Institute po metallicheskim prirodno-tekhnicheskim kvalitets.

Ed. I.M. Sosulin'yan. Publ. Tolstoyev House; O.M. Karyagin Tech. Ed.

PURPOSE: This collection of articles is intended for metallurgical engineers. It may also be used by students or schools of higher education.

CONTENTS: The collection contains technical papers which were presented and discussed at the First All Union Conference on Rare-Metal Alloys, held in the Institute of Metallurgy, Academy of Sciences USSR in November 1957. Results of discussions of rare metals and copper-base alloys with admixtures of thorium, vanadium, niobium, and their alloys. The effect of rare-earth metals on properties of magnesium alloys and steels is analyzed. The uses of titanium making plages for automobile engines, optics are discussed. Also, the effect of the addition of certain elements on the properties of heat-resistant steel is examined and alloy with special physical properties (particularly non-conductive alloy) are discussed. No personalities are mentioned. Script

PART II. STAINLESS AND CORROSION-RESISTANT ALLOYS WITH RARE-METAL ADDITIONS

Rare Metals (cont.)

SOV/416

Ishchenko, T.G., Komarov, and O.V. Smirnov. wrought magnesium alloys

with rare-earth metals and L.A. Anan'yeva. Magnesium Casting Alloys

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Klimov, P.M., V.N. Balandina, and L.A. Anan'yeva. Magnesium Casting Alloys

219

Prishchepa, M.P., Mal'tsev, Z.A., Budigina, Yu. M., Petropavlov, and L.M. Serezhkin. Investigation of magnesium alloys containing thorium

227

Arenas, F.R. Preparation Alloys With Rare Metals

240

Klyuchnikov, I. M., and V. V. Dolgov. Effect of Rare-Earth and Alkaline-Earth Metals on Mechanical Properties of Magnesium-Alloys of the Magnesium-Magnesite Series and Magnesium-Magnesite-Cerium Systems

259

Part V. ALLOYS IN STEELS

Bentikhova, S.M. Effect of Rare-Earth Metals on Sulfur Distribution and

269

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L Q4812-67 EWT(m)/ENP(t)/ETI IJP(c) JH/JD/JG/WB
ACC NR: AP6016027 (N) SOURCE CODE: UR/0128/66/000/001/0037/0010

AUTHOR: Tikhova, N. M. (Candidate of technical sciences); Blokhina, V. A. (Engineer) 34

ORG: none 28

TITLE: Effect of Zn on the properties of high-temperature alloys of the Mg-Nd-Zr system 27 27 27

SOURCE: Litseynoye proizvodstvo, no. 1, 1966, 37-40 18

TOPIC TAGS: ternary alloy, magnesium base alloy, zinc, metal hardening, solid solution/
ML5 alloy, ML9 alloy, ML10 alloy, ML15 alloy

ABSTRACT: The effect of the addition of 0.1-1.0% Zn on the properties of Mg alloys with 1.5-3.5% Nd and 0.5-0.7% Zr, as consisting in hardening through alloying of the solid solution, is investigated. Microstructural examination showed that treatment with Zn within the specified limits does not markedly affect the microstructure of the cast or heat-treated alloy (8-hr hardening at 535°C for alloys with ≤ 0.8% Zn and 510°C for alloys with 1% Zn, cooling in air with subsequent aging). In cast state the microstructure of the alloys consists of grains of the solid solution of Nd, Zn and Zr in Mg and of an eutectic along the grain boundaries. The composition of the eutectic includes a metallic compound, apparently Mg₁₂Nd. The positive effect of Zn on the ultimate strength of the alloys (Fig. 1, addition of 0.1-1% Zn at 20 and 250°C) is apparently

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UDC: 669.721.5.018.44:669.58

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ACC NR: AP6016027

conditioned by hardening of the solid solution, as confirmed by measurements of the microhardness of that solution (Table 1). This hardening of the solid solution is attributed to the concen-

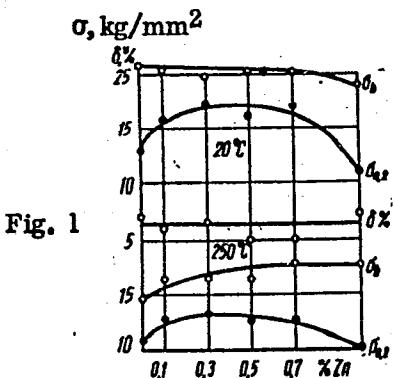


Table 1

alloy composition, %			$H_v, \text{kg/mm}^2$
Nd	Zn	Zr	
2,17	—	0,57	67,3
2,10	0,48	0,55	76,5
2,47	—	0,59	71,5
2,44	0,5	0,52	79,5

tration of small groups of dissolved atoms at definite lattice sites. The dissolved atoms in limited quantities form, as it were, atmospheres around the dislocations and thus enhance the critical tension of the migration of dislocations, wedging the dislocations in, as it were, and hardening the alloys. Around the lattice vacancies accumulate atoms with various diameters

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and in combinations which enhance lattice stability. Such accumulations, which reduce the lattice free energy, inhibit the displacement and diffusion processes of transition and increase the strength of alloys. This is exemplified by the addition of Zn: the diameter of a Zn atom is 2.74 Å, i. e. it is 14.3% smaller than that of a Mg atom (3.20 Å) and 36% smaller than that of a Nd atom (~3.74 Å). Apparently the addition of Zn contributes to a stable state of the alloy's crystal lattice. Other positive effects of Zn-treated ML10 alloys, as compared with Zn-free ML5, ML9, ML10, and ML15 alloys, are: better weldability, higher corrosion resistance, higher yield strength. Orig. art. has: 10 figures and 5 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002

Card

3/3 gd

BLo KHINA, V. D.

The constituent fractions of proteins of the smooth muscles of vertebrates. I. I. Ivanov and V. D. Blokhina. Biokhimiya 20, 200-3 (1955). Smooth muscles of the stomachs of pigeons, rabbits, and dogs were used in all cases.

Chest muscles of the pigeons and thigh muscles of the dogs and rabbits were used for expts. with striated muscles. Electrophoretic sepn. of protein constituents was used. In the proteins of the smooth muscles of the stomach of the pigeon 4 constituents were found: Fraction I, corresponding to peak I, representing 6% of the sol. proteins; fraction II (peak II), approximately 42%; fraction III (peak III), near 20%; and fraction IV (peak IV), near 20% of the sol. proteins. Results obtained with the proteins of the stomach muscle of the rabbits and dogs were practically identical with the above. The proteins of the actomyosin complex are present in the smooth muscles of vertebrates in comparatively small amts. and appear to be constituents of fraction II. The physicochemical constants of I, III, and IV have not been investigated. The results obtained strengthen the assumption previously forwarded (Khim. Dinamika Myasit i Podushnykh Kletok, Moscow 1950; Byull. Akad. Biol. i Med. 1949, 32) that a protein constituent other than actomyosin forms the substrate of smooth muscle tonicity in vertebrates. B. S. Levine (1)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610002-5

1733
EFFECTS OF IONIZING RADIATION ON THE CYTOPLASM OF LIVER CELLS.
L. V. Vint and H. S. Uspensky. Med Radiat.
1951. No. 14. p. 7.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610002-5"

BLOKHINA, V.D.

Lipid content of liver cell microstructures in acute radiation sickness in rabbits [with summary in English]. Med.rad. 4 no.1:
53-59 Ja '59. (MIRA 12:2)

(LIVER, eff. of radiations,
x-rays, on lipids (Rus))

(LIPIDS, metab.
liver, eff. of x-rays (Rus))

(ROENTGEN RAYS, effects,
on liver lipids (Rus))

BLOKHINA, V.D.

Lipoproteins of liver cell mitochondria in acute radiation sickness
[with summary in English]. Med.rad. 4 no.2:37-41 F '59. (MIRA 12:4)

(ROENTGEN RAYS, effects,
on liver lipoproteins in rabbits (Rus))

(LIPOPROTEINS, metab.
liver, eff. of x-rays in rabbits (Rus))
(LIVER, eff. of radiations,
x-rays on lipoproteins in rabbits (Rus))

BLOKHINA, V.D.; DEMIN, N.N.

Distribution of lipids in the cell plasm of the liver in acute
radiation sickness. Biokhimiia 24 no.4:723-728 Jl-Ag '59.
(MIRA 12:11)

(COBALT radioactive)
(LIVER radiation eff.)
(LIPIDS metab.)

BLOKHINA, V.D.; SHAL'NOV, M.I.

Comparative studies on protein fractions of blood serum following single exposures to high energy protons and roantgen rays. Biul. eksp.biol.i med. 47 no.8:49-52 Ag '59. (MIRA 12:11)

1. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Orehovichem.
(BLOOD PROTEINS radiation eff.)

*BLOCKHEADING**B.R.*

Sov/2394

PAGE I BOOK INFORMATION

Institut Biologichesky Fiziki.

Издавательство Научных работников Института Физики Биологии
Радиационные реакции на радиоактивные изотопы (статьи о
Радиационных реакциях на радиоактивные изотопы). Книжное, 1960 г.
220 с. Карты иллюстрированы.
5000 экземпляров.

Составляющая Академии наук СССР. Институт Биологической Физики.

Ред. М. Г. Франк, Corresponding Member; Академия наук СССР; З. А. Гарднер, Академия наук СССР; В. В. Гарднер, Академия наук СССР; М. А. Малышев.

ПРИРОДА: This book is intended for radiobiologists.

СОДЕРЖАНИЕ: This is a collection of nine articles by different authors on the effects of radiation on life processes. The following are discussed: the relationship between reflector mechanisms and disturbances in hemodynamics; the marked diminution or total absence of hemodynamic reactions under soft irradiation upon fluorocitary treatment of the skin with monochromatic reflector-induced changes in the central nervous system and the almost instantaneous advent of film photodissociative reactions following irradiation; changes in the stability of the erythrocyte level during the first several hours after irradiation; blood albumin state and new and important data on tissue breathing and disturbances in the physicochemical properties of erythrocytes. M. F. Kryukova, Doctor of Biological Sciences, is mentioned. Each article is accompanied by references.

Серебрякова, А.Ю.: Changes in the Physicochemical Properties of Erythrocytes Under the Effect of Radiation

Михайлова, Ю.Н.: Albumin Fractions in the Blood Plasma of Animals Exposed to Different Doses of X-Rays

Франчук, И.Г.: Effect of X-Ray Irradiation on the Gas Balance of the Blood

Бенчук, А.Д.: On Changes in the Oxygen Content of Brain Tissues Under the Effect of Radiation

Аладжанян, Е.А.: Characteristics of Physicochemical Changes in the Central Nervous System for Different Periods of Exposure to Radiation

АВАЛАНДА: Library of Congress

Card 2/5

JA/m/kpp
7-35-Q

(6)

BLOKHINA, V.D. (Moskva)

Some contemporary data on lipoproteins in cells. Usp.sovr.biol.
55 no.1:34-44 Ja-F '63. (MIRA 16'3)
(LIPOPROTEINS)

BLOHINA, V. D. [Blokhina, V.D.]

Present data on the cellular lipoproteids. Analele biol
17 no. 4:65-77 Jl-Ag '63.

BLOKHINA, V.D. (Moskva)

Effect of ionizing radiation on the protein synthesis. Usp. sovr.
biol. 57 no.3:394-403 My-Je '64. (MIRA 17:6)

L 7767-66 EWT(m)

ACC NR: AP5025917

SOURCE CODE: UR/0205/85/005/005/0659/0861

AUTHOR: Blokhina, V. D.; Martynova, T. T.

ORG: None

TITLE: The effect of penetrating radiation on strongly bonded lipids of liver cell mitochondria

SOURCE: Radiobiologiya, v. 5, no. 5, 1965, 659-661

TOPIC TAGS: biologic metabolism, gamma irradiation, irradiation effect, chemical bonding, radiation sickness, experiment animal

ABSTRACT: Tests were conducted on rabbits with radiation sickness caused by a single application of the minimal absolute lethal gamma ray dose of 800 r (200-250 r/min) leading to death within a week. The fasting animals were sacrificed, lipids were extracted from the liver homogenate, and the weakly bonded lipids were removed from the mitochondria, the residue being considered solidly bonded. The lipids were determined in the fatty acids by the bichromatic method.

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UDC: 577.391

L 7767-66

ACC NR: AP5025917

other contents such as phosphates, cholesterol and proteins were also determined prior to and 24 and 72 hours after irradiation. Prior to irradiation, the total content of lipids as percent of protein content in the mitochondria was very high (26%). The shares of weakly and strongly bonded lipids were 11 and 15% respectively. After 24 hours the total lipid content in these cells increased, due to an increase of solidly bonded lipid fractions (21%). The share of phosphatides in the weakly bonded lipids decreased somewhat and their triglyceride content increased. After 72 hours, at the height of radiation sickness, a decrease of all lipids in the mitochondria was seen due mainly to a decrease of solidly bonded lipids (6%). As a result of 50% alkaline hydrolysis of mitochondrial residue after extraction of the weakly bonded lipids, a weakening of bond strength was observed in the lipoprotein complexes at the height of radiation sickness. Orig. art. has: 1 figure and 1 table

SUB CODE: LS,OC/ SUBM DATE: 25Sep63/ ORIG REF: 005/ OTH REF: 002

nw

Card 2/2

ACC NR: AM6026752

Monograph

UR/

Romantsev, Yevgeniy Fedorovich; Blokhina, Vera Dmitriyevna;
Koshcheyenko, Nikolay Nikolayevich; Filippovich, Igor' Vladimorovich

Early radiation and biochemical reactions (Rannkiye radiatsionno-
biokhimicheskiye reaktsii) Moscow, Atomizdat, 1966. 270 p. illus.,
biblio., tables. 2200 copies printed.

TOPIC TAGS: radiation biochemistry, ~~radiobiology, radiation biology effect~~,
~~radiation chemistry, radiation sensitivity, radiation resistance~~,
~~radiation sickness, chemical radiation protection, DNA, RNA, antiradiation drug, radiation cell effect~~

PURPOSE AND COVERAGE: This book is intended for biologists and bio-
chemists concerned with problems of radiation biochemistry. The
authors investigate the nature of early biochemical changes in the
living cell following irradiation, and the effect of protective
chemicals used in counteracting radiation in the living organism.
The formation of peroxides and peroxide-like compounds, the effect
of radiation on the synthesis of DNA and information RNA, the forma-
tion of macroergs, and other radiation problems in radiation bio-
chemistry are discussed. An attempt is also made to determine the
relationship between the operational mechanism of several protective
chemicals and "radiosensitive" biochemical reactions. Each chapter
is accompanied by an extensive list of references.

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UDC: 613.541.15:543.9.

ACC NR: AM6026752

TABLE OF CONTENTS [abridged]:

- Editor's foreword -- 3
Ch. 1. Formation of H₂O₂, organic peroxides, and peroxide-like compounds due to irradiation -- 7
Ch. 2. Effect of radiation and chemical protectives on DNA biosynthesis -- 43
Ch. 3. Effect of ionizing radiation on the biosynthesis of RNA and the possibility of normalizing it with protectors -- 120
Ch. 4. Effect of ionizing radiation on the synthesis of albumen -- 195
Ch. 5. Oxidative phosphorylation in the tissue of radiated animals -- 244

SUB CODE: 06/ SUBM DATE: 24Jan66/ ORIG REF: 336/ OTH REF: 805

Card 2/2

SEMENOV, M.P., prof., doktor geol.-min. nauk; ORADOVSKIY, A.Ye.;
IL'INA, O.V. Prinimala uchastiye BLOKHINA, V.I.; BYSTROVSKAYA,N.,
red. izd-va; BOROVNEV, N.K., tekhn. red.

[Geology of the foundations of high dams] Geologija osnovaniy vy-
sokikh plotin. Pod obshchei red. M.P.Semenova. Moskva, Gosstroj-
izdat, 1962. 353 p. (MIRA 15:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodo-
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i in-
zhenernoy gidrogeologii. 2. Nauchnyye sotrudniki Vsesoyuznogo
nauchno-issledovatel'skogo instituta vodosnabzheniya, kanaliza-
tsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy hidrogeologii
(for Semenov, Oradovskiy Il'ina, Blokhina).
(Engineering geology) (Dams)

L 38117-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG

ACC NR: AP6014142

SOURCE CODE: UR/0075/65/020/012/1336/1340

AUTHOR: Yemolayev, N. P.; Kovalenko, G. S.; Krot, N. N.; Blokhin, V. I.

ORG: none

TITLE: Photometric determination of neptunium using xylanol orange

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1336-1340

TOPIC TAGS: quantitative analysis, neptunium, photometric analysis

ABSTRACT: The tests were carried out with hydrochloric acid solutions of neptunium (IV). The optical density was measured with a Model "DU" Beckman spectrometer and a FEK-M⁴ photocalorimeter with a green light filter. The acidity of the solution was controlled with a type LP-5⁴ lamp-type potentiometer with a glass electrode. The results indicate that the absorption spectra of weakly acid solutions of xylanol orange and its complexes with neptunium (IV) are very different. In the long wave region, in which the absorption of complexes is high, the intensity of the color of the reagent is very slight. The maximum value of the molar coefficient of absorption of the products of the reaction between neptunium (IV) and xylanol orange is approximately 5.5×10^4 / cm-mole. The article proceeds to the description of a method for the determination

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UDC: 543.422

L 38117-66

ACC NR: AP6014142

of neptunium in solutions containing impurities of other elements. Experimental results are given in a table. The time required for determination by this method is 3 hours, and the error is \pm 1 microgram. Orig. art. has: 3 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 03Feb64/ ORIG REF: 005/ OTH REF: 007

Cord 2/2 elb

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610002-5

VDOVENKO, V.M.; MASHIROV, L.G.; BLOKHINA, V.K.; SUGLOBOVA, I.G.; SUGLOBOV, D.N.

Mutual solubility in the systems uranyl perchlorate - water-diethyl ether and uranyl perchlorate - water - di-n-butyl ether at 25°C. Radiokhimiia 5 no.1:80-89 '63. (MIRA 16:2)

(Uranyl perchlorate)
(Ethers)

(Solubility)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610002-5"

BLOKHIN, V.N.; GRIGOR'YEV, M.G.; KOZHEVNIKOV, A.I.; KOROLEV, B.A.; MATYUSHIN, I.F.; PARIN, B.V.; TSIMKHE, I.L.; KALININA, G.V.; FEDOROV, A.M.; KOLOKOL'TSEV, M.V.; SOKOLOV, V.V.; PRILUCHNAYA, O.A.; SHUMILKINA, Ye.I.; ABRAMOV, Yu.G.; RYURIKOV, A.Kh.; IKONNIKOV, P.I.; VOZNESENSKIY, I.Ye.; TEPLOV, S.V.; MIZINOV, N.N.; KUKOSH, V.I.

V.M.Durmashkin; obituary. Ortop., travm. i protez. 21 no.8:81 Ag
'60. (MIRA 13:11)

(DURMASHKIN, VIKTOR MARKOVICH, d. 1960)

HLOKHIMA, N.A.

Structure and mineralogical composition of skarn zones in the
Maykhura deposit. Trudy Inst.geol. AN Tadzh.SSR 4:191-214 '61.
(MIRA 15:12)

1. Institut geologii AN Tadzhikskoy SSR.
(Maykhura Valley—Skarn)

BLOKHINA, T.

We should persistently promote the growth of labor productivity. Khim.volok. no.5:79 '62. (MIRA 15:11)

1. TSentral'nyy komitet professional'nogo soyusa rabochikh naftyanoy i khimicheskoy promyshlennosti.
(Textile fibers, Synthetic)
(Labor productivity)

S/186/63/005/001/006/013
EC75/E436

AUTHORS: Vdovenko, V.M., Mashirov, L.G., Blokhina, V.K.,
Suglobova, I.G., Suglobov, D.N.

TITLE: Mutual solubility in the systems uranyl perchlorate-water-diethyl ether and uranyl perchlorate-water-di-n-butyl ether at 25°C

PERIODICAL: Radiokhimiya, v.5, no.1, 1963, 80-89

TEXT: The work was carried out in view of insufficient knowledge on the solubilities in organic solvents of U salts other than $\text{UO}_2(\text{NO}_3)_2$. Different hydrates of $\text{UO}_2(\text{ClO}_4)_2$ and the anhydrous salt were prepared by dissolving pure UO_3 in HClO_4 and drying. In the system $\text{UO}_2(\text{ClO}_4)_2\text{-H}_2\text{O}$ -diethyl ether the critical point on the layer separation curve occurs at 25% $\text{UO}_2(\text{ClO}_4)_2$ and 5% H_2O . The aqueous and ethereal branches of the distribution curve merge. The effect of hydration on the solubility of the salt is negligible and the solubility of the anhydrous salt in ethyl ether is 35%. The salt begins to dissolve in aqueous ethereal solutions only when their H_2O content is less than 15% and the ether content of H_2O is more than 50%. The salt dissolves in H_2O -ether in the form of hydrates. Ethyl ether is Card 1/2

Mutual solubility ...

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highly soluble in concentrated aqueous $\text{UO}_2(\text{ClO}_4)_2$ solutions, the solubility increasing sharply at about 43% salt content. In n-butyl ether the concentration of $\text{UO}_2(\text{ClO}_4)_2$ in contact with its saturated H_2O solution is 0.6%. The maximum solubility in the ether is 50.5%. The solubility of the anhydrous salt in ether is 3.7%. The degree of hydration of $\text{UO}_2(\text{ClO}_4)_2$ at the point of separation of layers is 4.7 and 4.8 in ethyl- and butyl-ether respectively. This suggests that the coordination number of U in the solutions is 5. The value is supported also by the composition of crystallo-solvates and the composition of the $\text{UO}_2(\text{ClO}_4)_2$ antipyrene complex obtained by E. Wilke-Dorfurt and O. Shliephake (Z. anorg. allgem. Chem., v.170, 1-2, 1928, 129). The following solid phases were identified in the system perchlorate - water - diethyl ether: $\text{UO}_2(\text{ClO}_4)_2$ with 7, 5 and 3 molecules of H_2O , $\text{UO}_2(\text{ClO}_4)_2 \cdot \text{H}_2\text{O} \cdot 4(\text{C}_2\text{H}_5)_2\text{O}$, $\text{UO}_2(\text{ClO}_4)_2 \cdot 3(\text{C}_2\text{H}_5)_2\text{O}$. In the system with dibutyl ether the solid phases were: $\text{UO}_2(\text{ClO}_4)_2$ with 7, 5 and 3 molecules of H_2O and $\text{UO}_2(\text{ClO}_4)_2 \cdot 2(\text{C}_4\text{H}_9)_2\text{O}$. There are 4 figures and 2 tables.

SUBMITTED: November 2, 1961
Card 2/2

BLOKHINA, V.P.

"The Action of Acute Psychic Trauma Following Cerebral or Somatic Insufficiency."
Cand Med Sci, Dnepropetrovsk State Medical Inst, Dnepropetrovsk, 1954.
(KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (16).

*C. A. BLOKHINA, u.**11 A*

Deformation of proteins of the keratin-myosin group in solutions of organic substances. A. G. Pasynkikh and V. Blokhina. *Doklady Akad. Nauk S.S.R.* 70, 535-5 (1950).—The tensile characteristics of wool and hair keratins and muscle protein were examined, using various solns. for immersion. At 22° for wool keratin the values were: in H₂O, hysteresis loop (in % of area of the extension curve) 45.0, work of extension (carried to 30% relative extension) 1.0; in acetate buffer (pH 4.1), 36 and 0.85; in 5 M urea, 43.6 and 0.83; in 14% guanidine nitrate, 26.5 and 0.78; in 1 M urethan 40.5 and 0.93; in 1% Sulfanol, 43.1 and 0.93; in 1% Igepon, 41.5 and 0.89; in 3% Na hydrosulfite (pH 4.1), 07.9 and 0.63. For hair keratin the figures were, resp.: 39.0 and 1.0; 31.0 and 0.95; 34.5 and 0.8; 32.5 and 0.82; 38.2 and 0.91; 34.0 and 0.92; 34.3 and 0.91; 44.7 and 0.80. Results at 40° were analogous. All substances tested reduce the work of extension and decrease the area of hysteresis loop except for Na hydrosulfite. The substances, except the last, weaken the bonding between the various regions of polypeptide chains, retaining the covalent links. In the case of hydrosulfite the disulfide links are cleaved and the work of extension drops sharply, while the hysteresis loop area increases owing to the possibility of "recombination" of the attractive areas of the freed polypeptide chains, an event impossible in the 1st category of substances. With rat sartorius muscle in 0.9% NaCl using similar 30% extension technique, it was found that in 3-4 hrs. return to original dimensions is almost 100%. In 5 M urea or 0.25% adenosinetriphosphate (ATP) the work of extension was but 0.75-0.8 and residual extension after 3-4 hrs. was 16-17%. If ATP soln. was replaced immediately after removal of load by physiol. soln., the contraction to original size took place, but with urea soln. residual ex-

tension remained. The hysteresis loop area was 63% for physiol. NaCl and 67-74% for ATP and urea solns. Data of temp. dependence of stress in the fibers in 15-60° interval allowed computation of the entropy factor F_e in the work of extension for the various fibers studied. In hair keratin this was 11.9% in H₂O, 14% in 5 M urea, and 21.2% in hydrosulfite soln. The latter was 24% for wool keratin. Hence the entropy factor rises as the areas of chains or entire chains are freed from previous linkages. In muscle fibers, studied at 15-40°, the entropy factor in the solns. of urea or ATP is rather high, not under 30-40%. Hence, Astbury's (*C.A.* 41, 6004) idea of completely energetic mechanism of muscle contraction is incorrect; this is also confirmed by x-ray investigations (*C.A.* 44, 8976c).

G. M. Kosolapoff

PASYNSKIY, A.; BLOKHINA, V. (P.)

Displacement of isoelectric point in proteins in their deformation.
Doklady Akad nauk SSSR 86 no. 6:1171-1173 21 Oct 1952. (CLML 23:3)

1. Presented by Academician A. I. Oparin 3 September 1952. 2. Institute of Biochemistry imeni A. N. Bakh, Academy of Sciences USSR.

BLOKHINA, V.P.

USSR/Biology - Biochemistry

Card 1/1 rub. 22 - 32/51

Author : Pasynskiy, A. G.; Volkova, M. S.; and Blokhina, V. P.

Title : Isotopic method of determining the denaturing changes in albumins

Periodical : Dok. AN SSSR 101/2, 317-320, Mar 11, 1955

Abstract : Experiments showed that the denaturing of albuminous substances results in an increase in the chemical reactivity of numerous functional groups of the denatured albumin. The introduction of a new isotopic (S^{35}) method for the study and determination of changes in albumin due to denaturing is announced. Some results obtained with the new isotopic method are listed. Four references: 1 USSR, 1 USA, 1 German and 1 Belgian (1948-1953). Table.

Institution : Acad. of Sc. USSR, The A. N. Bakh Inst. of Biochemistry

Presented by: Academician A. I. Oparin, December 24, 1954

BLOKHINA, V.P.

PASYNSKIY, A.G.; BLOKHINA, V.P.

Enzymatic oxidation of ascorbic acid in an open system [with English summary in insert]. Biokhimiia 21 no.6:826-833 N-D '56. (MLRA 10:7)

1. Institut biokhimi imeni A.N.Bakha Akademii nauk SSSR, Moskva.
(VITAMIN C,
fermentative oxidation in open system (Rus))

Oxidation of ascorbic acid in flow conditions. A. G.
Pasynskii and V. P. Blokhina (A. N. Bach Biochem. Inst.,
Moscow). *Doklady Akad. Nauk S.S.R.* III, 1293-6
(1958).—Simultaneous addn. of solns. of ascorbic acid and
 H_2O_2 in the presence of peroxidase (from horse-radish) to an
app. provided with a semipermeable membrane in contact
with constantly flowing H_2O was examined, as to the rate of
oxidation of ascorbic acid. The kinetics of the reaction are
examined, and the kinetic curves are shown. The system
shows the typical enzymatic behavior with ability to com-
pensate extremes of concn. of the reactants and to stabilize
itself dynamically as the reactants are brought in contact.
The stationary-state stabilization is attainable with changes
of 7-10% of the transfer coeff. in the system, at room. temp.

G. M. Kosolapoff

PUSTOVALOV, I.I., inzh.; LEBEDEV, K.S., inzh.; LYUBCHENKO, A.M., inzh.;
MATVEYEV, V.A., inzh.. Prinimal uchastiye SHAPOSHNIKOV, A.V..
BLOKHINA, V.V., red.; PECHENKIN, I.V., tekhn.red.

[Approximate time norms for repair work; metal machining, fitting,
fitting-assembly, electric welding, gas welding, and forging
operations for collective farms and state farms] Primernye nor-
mativy vremeni na remontnye raboty; mekhanicheskaja obrabotka me-
tallov, slesarskiye, slesarno-aborochnye, elektrsovarkchnye, gazo-
svarochnye i kuznechnyye raboty dlja kolkhozov i sovkhozov. Moskva,
Izd-vo M-va sel'skogo khoz. SSSR, 1960. 199 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po voprosam
truda i zarabotnoy platy.
(Machine-shop practice)

SOLOV'YEV, B.F.; KINSH, A.S.; YAKUHKINA, A.F.; BLOKHINA, V.V., red.;
PECHENKIN, I.V., tekhn.red.

[Seed corn; a handbook] Semenovodstvo kukuruzy; spravochnik.
Moskva, Izd-vo M-va sel'khoz.SSSR, 1960. 226 p. (MIRA 13:6)

1. Russiia (1923- U.S.S.R.) Ministerstvo sel'skogo khozyaystva.
Glavnaya inspeksiya po zemledeliyu.
(Corn (Maize))

MANZHELIY, I.I., kand.sel'skokhoz.nauk; red.; BLOKHINA, V.V., red.;
PECHENKIN, I.V., tekhn.red.

[Monospermous sugar beet] Odnosemiannais sakharinaia svekla;
sbornik statei. Pod red. I.I.Manzhelija. Moskva, Izd-vo M-va
sel'. khoz. SSSR, 1960. 183 p. (MIRA 13:12)

1. Russija (1923- U.S.S.R.) Glavnaya inspeksiya po zemledeliyu.
2. Uchenyy sekretar' otdeleniya zemledeliya Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Manzhely).
(Sugar beets)

SOLOV'YEV, B.F.; otv.red.; BLINKOVA, M.V., otv.red.; BLOKHINA, V.V.,
red.; PECHENKIN, I.V., tekhn.red.

[Abridged transactions of the All-Union Conference on Corn
Growing, Krasnodar 1960] Sokrashchennye materialy Vsesoyuznogo
soveshchaniia po proizvodstvu kukuruzy. Moskva, Izd-vo M-vn
sel'.khoz.SSSR, 1961. 527 p. (MIRA 14:4)

1. Vsesoyuznoye soveshchaniye po proizvodstvu kukuruzy, Krasnodar,
1960. 2. Glavnnyy agronom po kukuruze Ministerstva sel'skogo
khozyaystva SSSR (for Solov'yev).
(Corn (Maize))

MUROMTSEV, G.S.; PEN'KOV, L.A.; BLOKHINA, V.V., red.; DEYEVA, V.M.,
tekhn. red.

[Gibberellins] Gibberelliny. Moskva, Sel'khozizdat, 1962.
230 p. (MIRA 15:11)
(Gibberellin)

PRUTSKOVA, Mariya Grigor'yevna; UKHANOVA, Oktyabrina Ivanovna;
BLOKHINA, V.V., red.; BELOVA, N.N., tekhn. red.

[Winter wheat "Bezostaia l."] Ozimaia pshenitsa Bezostaia l.
Moskva, Sel'khozizdat, 1962. 93 p. (MIRA 16:3)
(Wheat—Varieties)

CHESALIN, Grigoriy Alekseyevich, kand. sel'khoz. nauk; BLOKHINA,
V.V., red.; BELOVA, N.N., tekhn. red.; OKOLELOVA, Z.P.,
tekhn. red.

[Cultivation and chemical measures in weed control] Agro-
tekhnicheskie i khimicheskie mery bor'by s sorniakami.
Moskva, Sel'khozizdat, 1963. 214 p. (MIRA 16:12)
(Weed control)

CHESALIN, Grigoriy Alekseyevich, kand. sel'khoz. nauk; BLOKHINA,
V.V., red.; BELOVA, N.N., tekhn. red.; OKOLELOVA, Z.P.,
tekhn. red.

[Agricultural practices and chemical measures in weed
control] Agrotekhnicheskie i khimicheskie mery bor'by s
sorniakami. Moskva, Sel'khozizdat, 1963. 214 p.
(MIRA 17:2)

KOZMENKO, A.S.; ANTROPOV, T.F., spets. red.; BLOKHINA, V.V., red.

[Controlling soil erosion in farm lands] Bor'ba s eroziei
pochvy na sel'skokhoziaistvennykh ugod'iakh. Moskva, Sel'-
khozizdat, 1963. 207 p. (MIRA 18:3)

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NATAL'IN, N.B., kand. sel'khoz.nauk; BLOKHINA, V.V., red.

[Rice] Ris; sbornik statei. Moskva, Kolos, 1965. 326 p.
(MIRA 18:4)

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BLOKHINA, V.V., red.

[Chemistry in the fields] Khimiia na poliakh; sbornik
statei. Moskva, Kolos, 1965. 279 p. (MIRA 19:1)

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1. BLOKHINA, Z.A.
2. USSR (600)
4. Cysts
7. Case of a twisted cyst of the greater omentum in children., Z.A. Blokhina, Vest. khir. 73 no. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

BLOKHINOV, S.A., mekhanik

Mechanization of warp yarn conveying. Tekst.prom. 20 no.9:62-67
S '60.

(MIRA 13:10)

1. Pryadil'naya fabrika Yegor'yevskogo melanzhhevogo kombinata.
(Textile industry--Equipment and supplies)
(Conveying machinery)

BLOKHINOV, Ye.G.

Computation of the mean long-term discharge and the variability coefficient in case of extension of the statistical series. Meteor. i gidrol. no.4:50-51 Ap '56. (MLRA 9:8)
(Stream measurements)

BLOKHINOV, Ye. G.

Cand Tech Sci - (diss) "Study of the repeatability of rain floods in connection with the calculation of openings in hydraulic installations." Moscow, 1961. 20 pp; (Main Board of Hydrometeorological Services under the Council of Ministers USSR, Central Inst of Forecasts); 200 copies; price not given; (KL, 6-61 sup, 214)

BLOKHINOV, Ye.G.

Selecting the formula for estimating the possible frequency of streamflow characteristics. Sbor. rab. po gidrol. no.2:115-121 '61. (MIRA 15:2)

1. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledo-vatel'skiy institut im. S.Ya.Zhuk Ministerstva stroitel'stva elektrostantsiy SSSR.

(Runoff)

BLOKHINOV, Ye.G., inzh.

Investigating the frequency of floods resulting from rain.
Trudy Gidroproeekta no.4:78-113 '60. (MIRA 15:2)
(Ukraine--Floods)

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CIA-RDP86-00513R000205610002-5

BLOKHINOV, Ye.G., inzh.

Studying hydrological phenomena by parametric composition of
probability distribution functions of natural factors. Trudy
Gidroproyekta no.4:118-127 '60.
(Hydrology) (MIRA 15:2)

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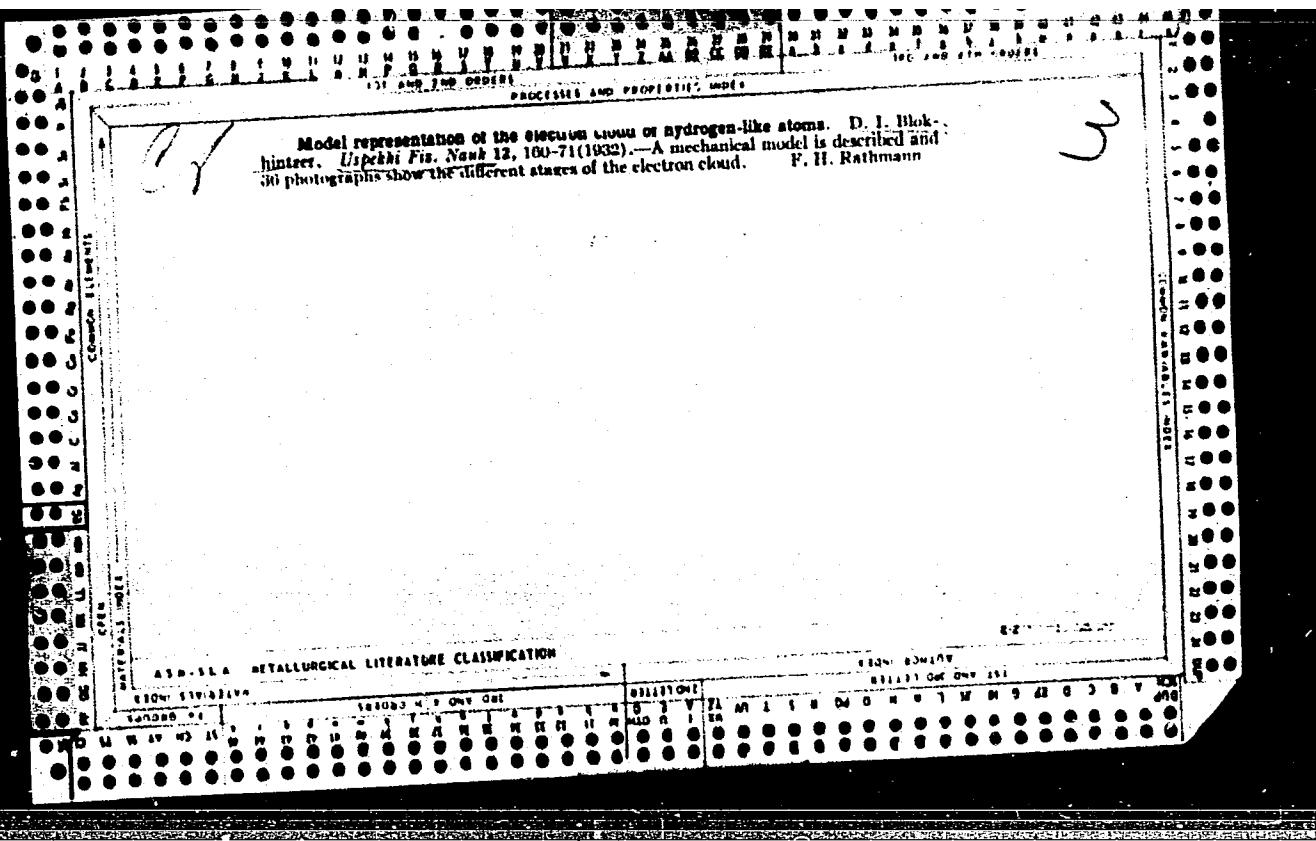
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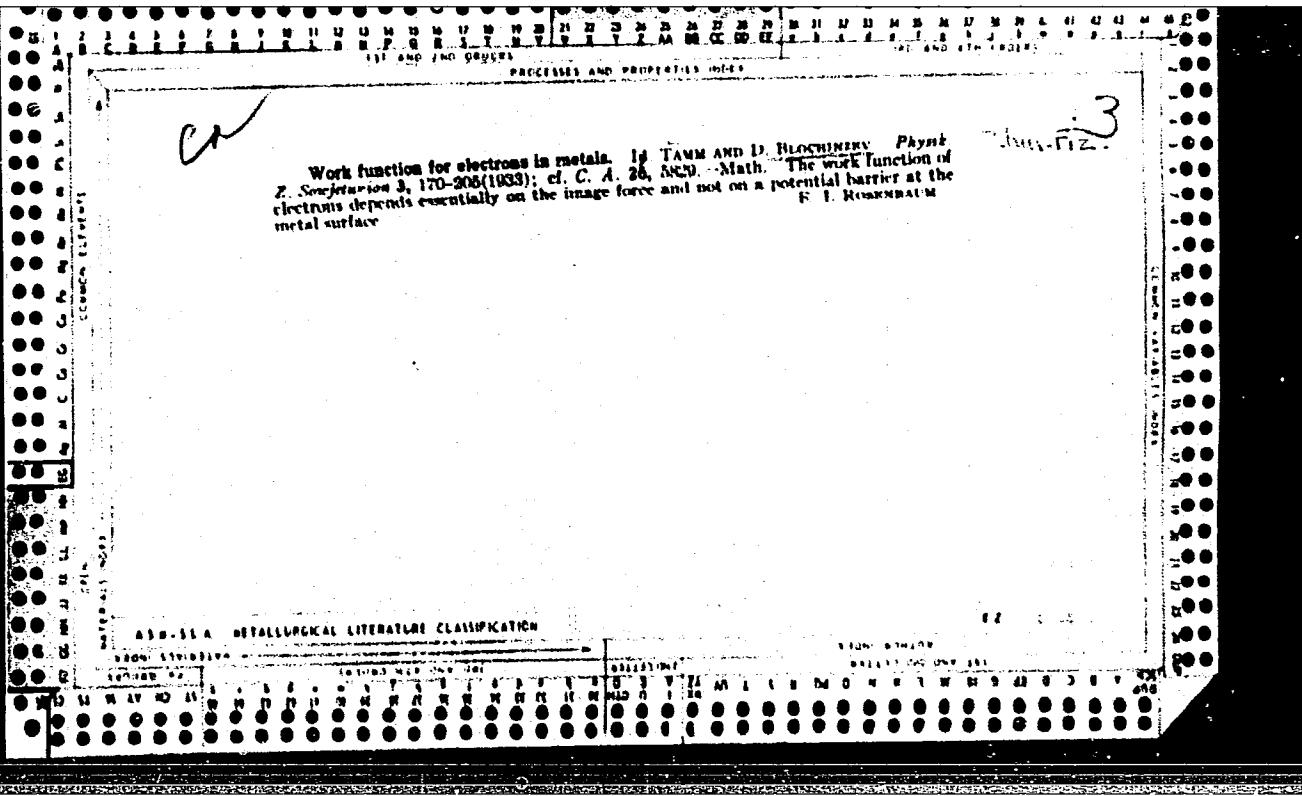
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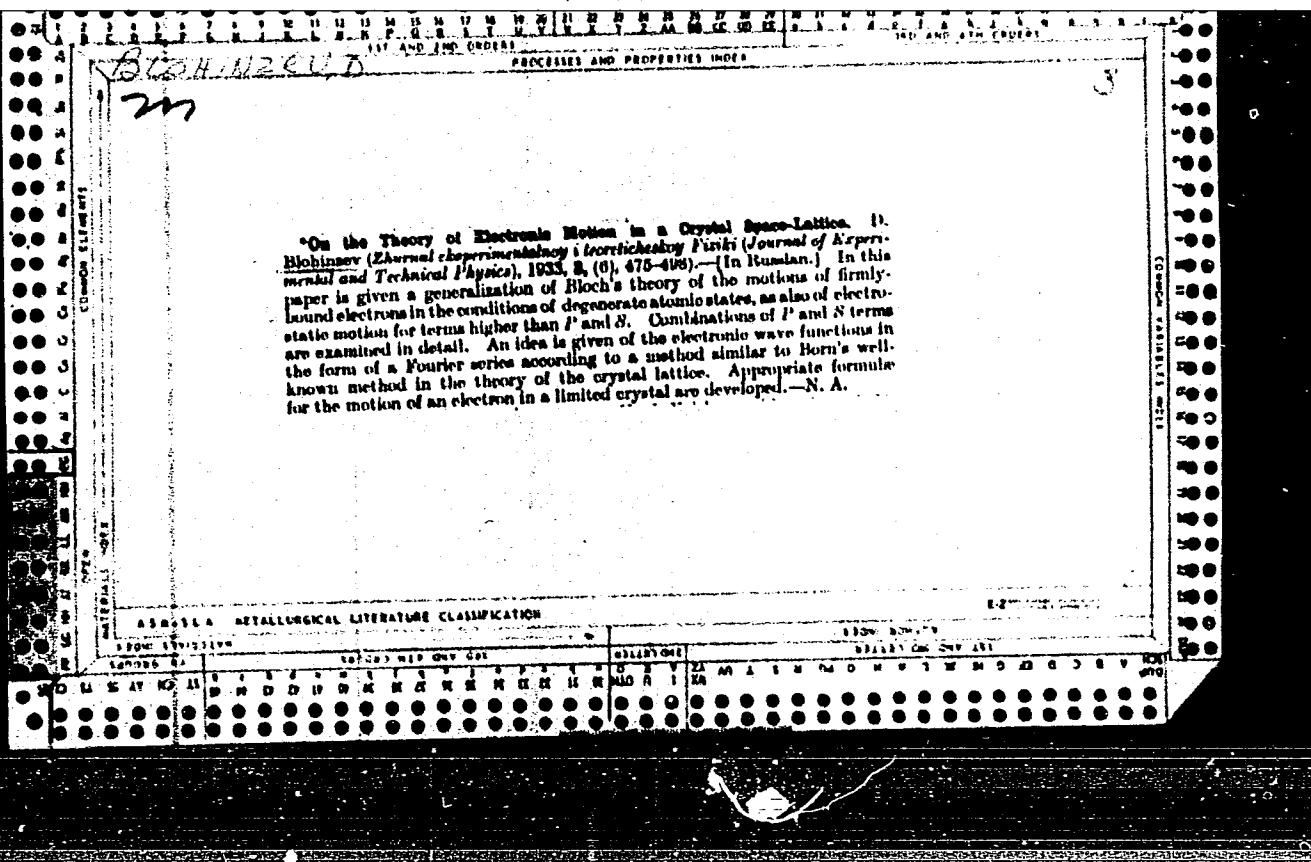
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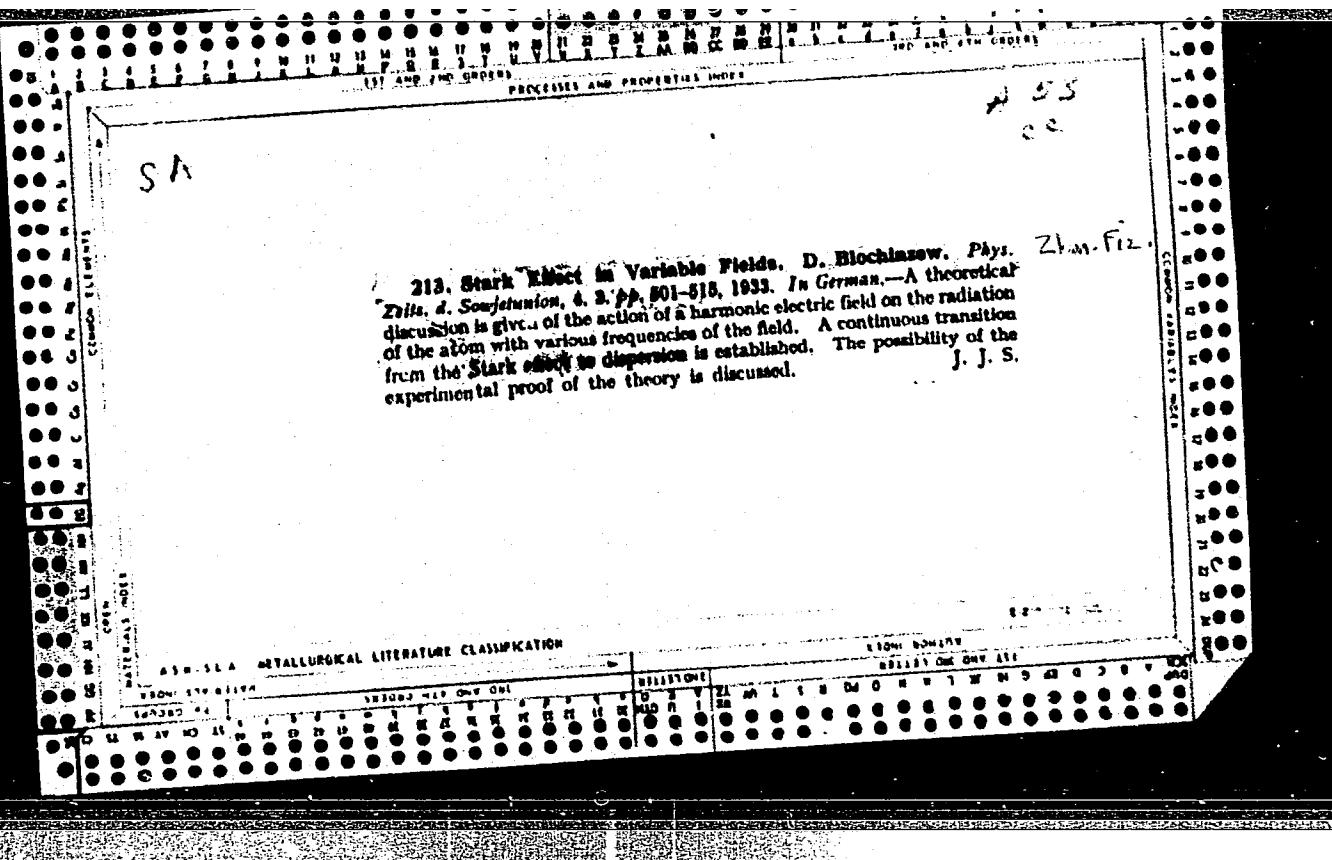


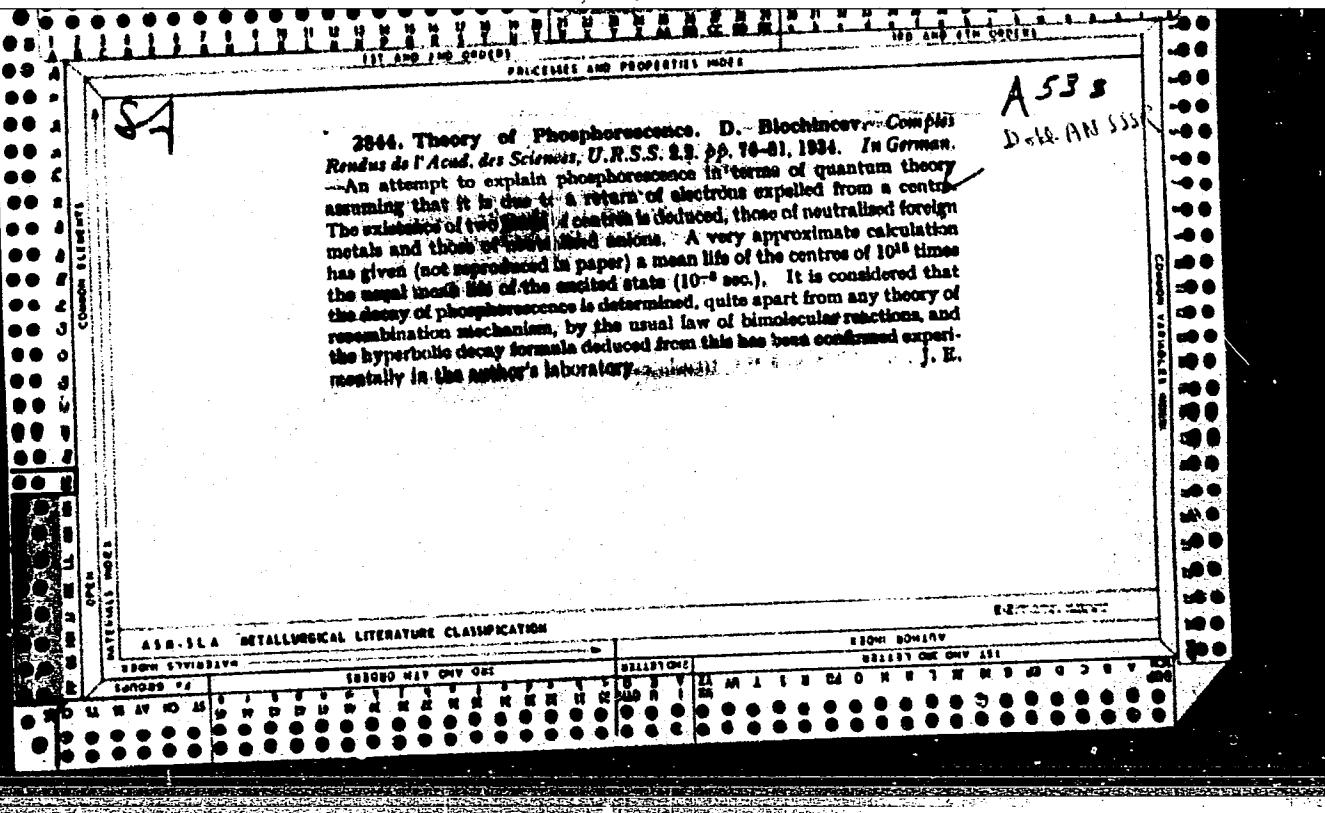
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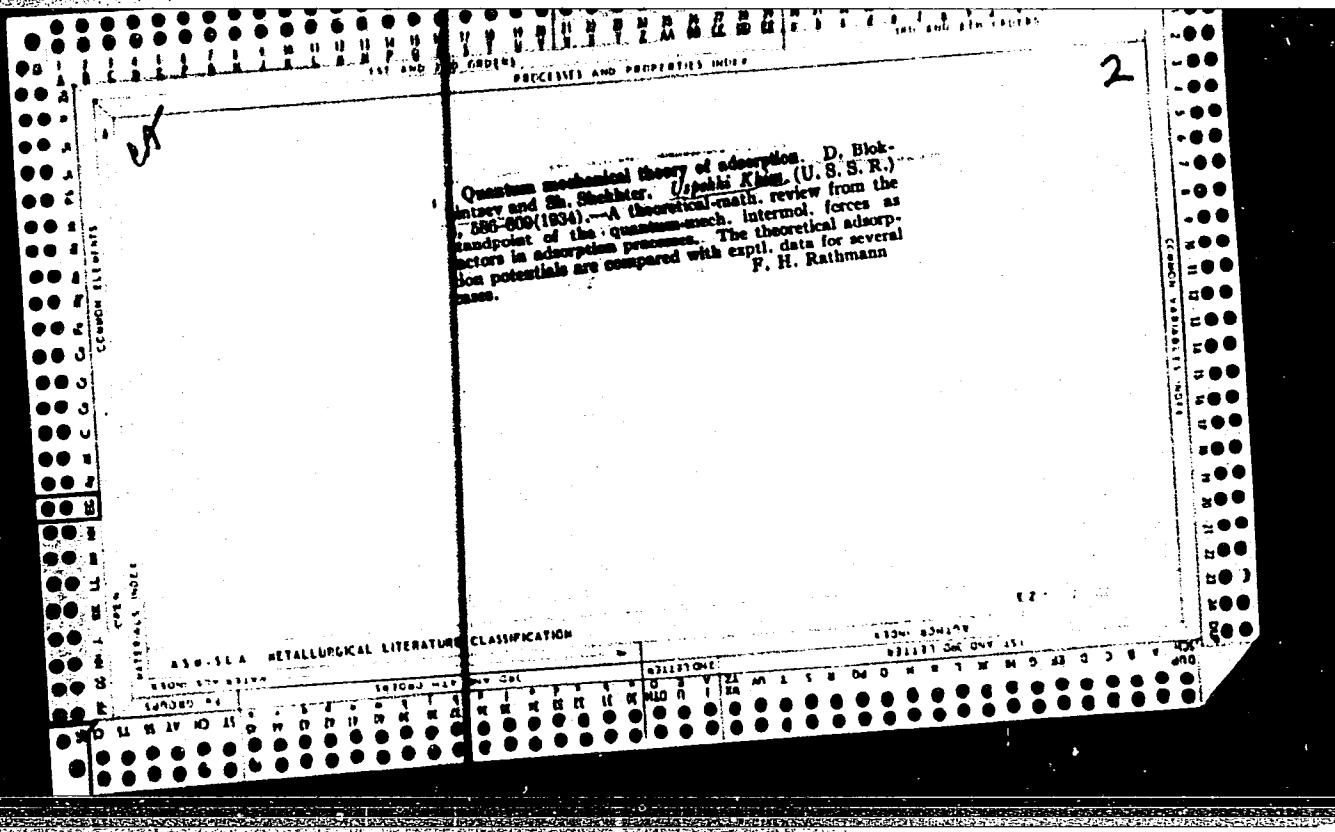
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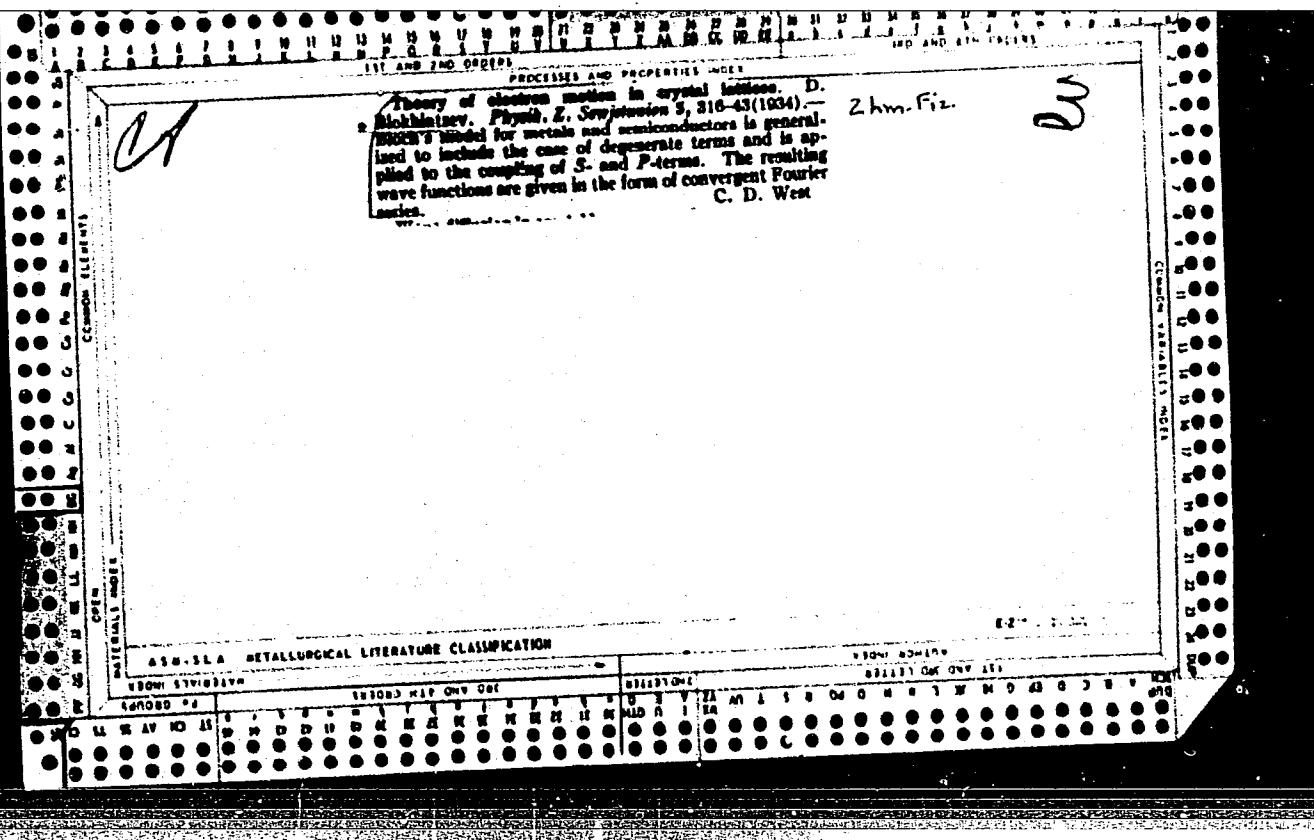


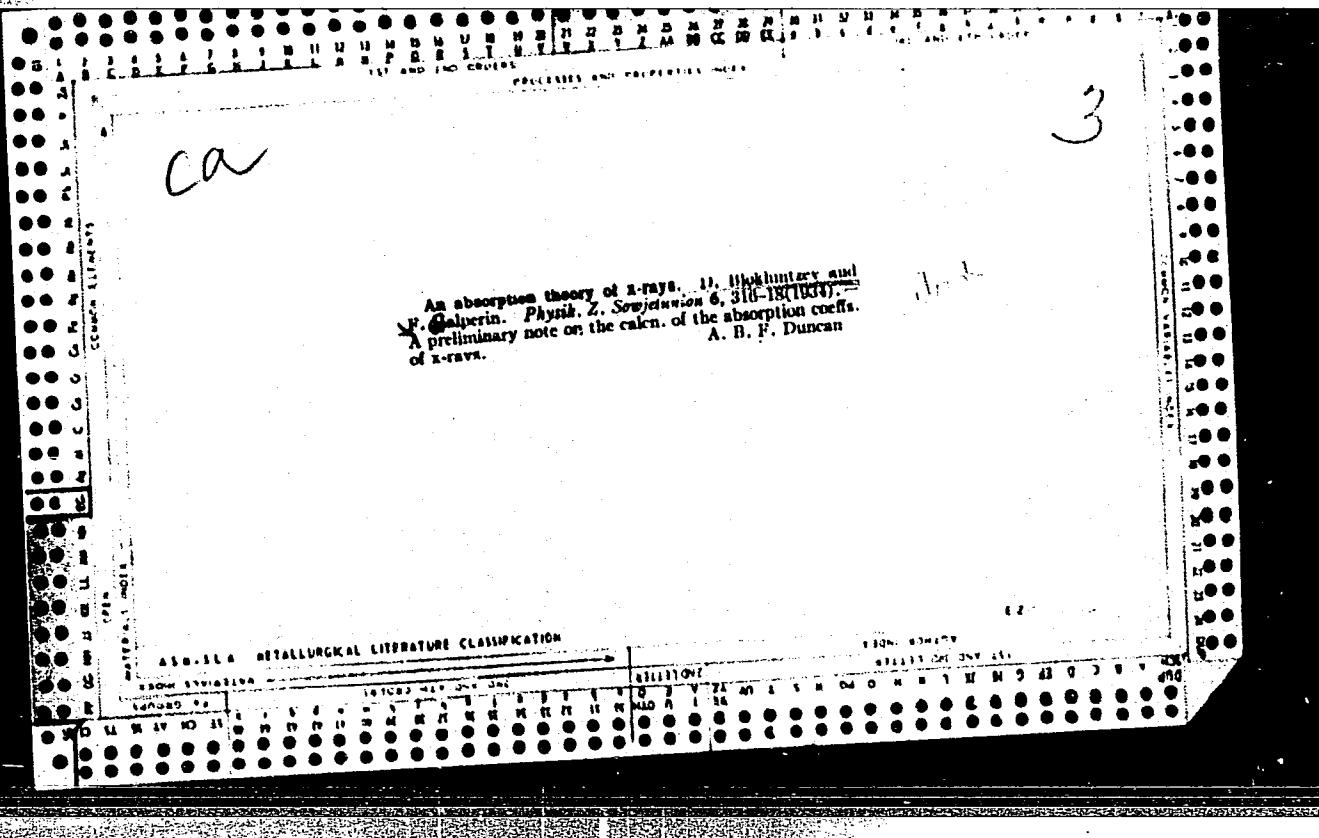


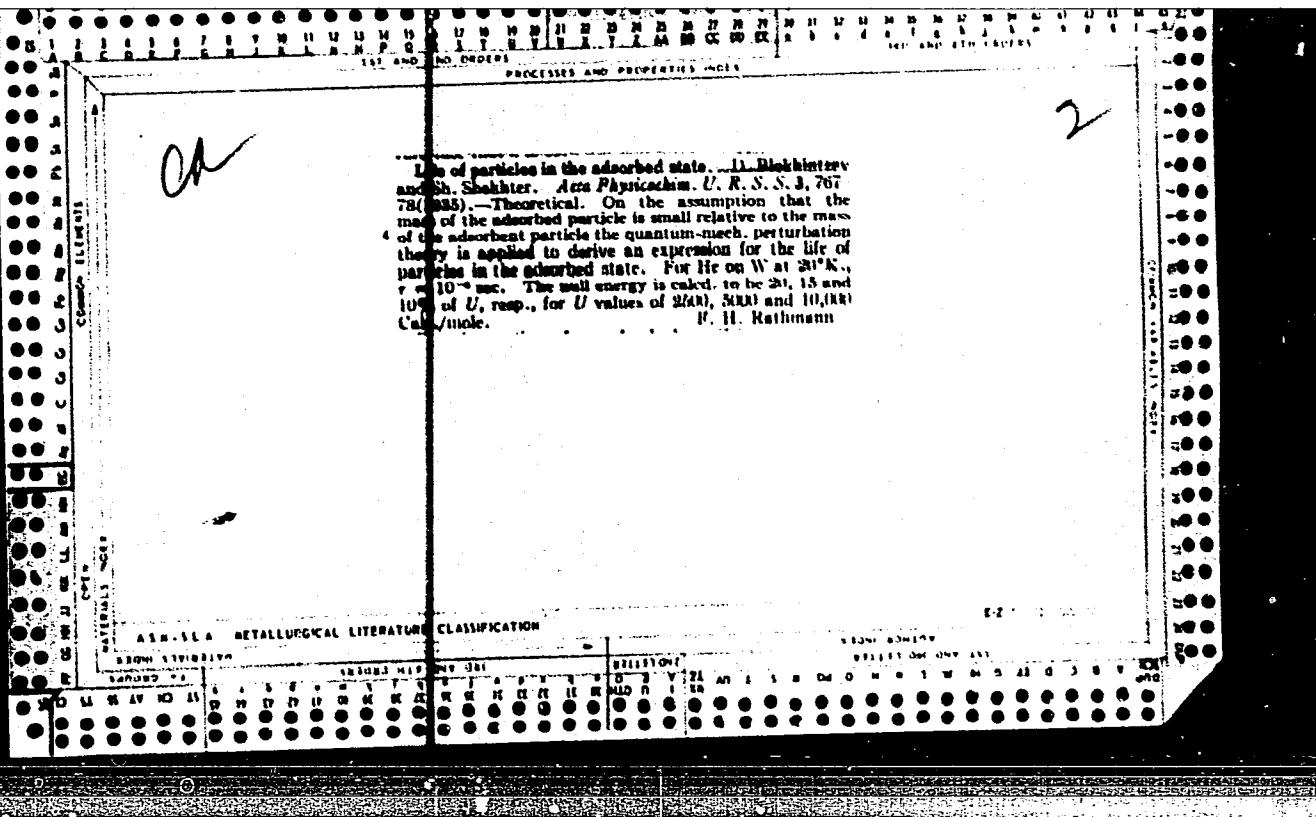


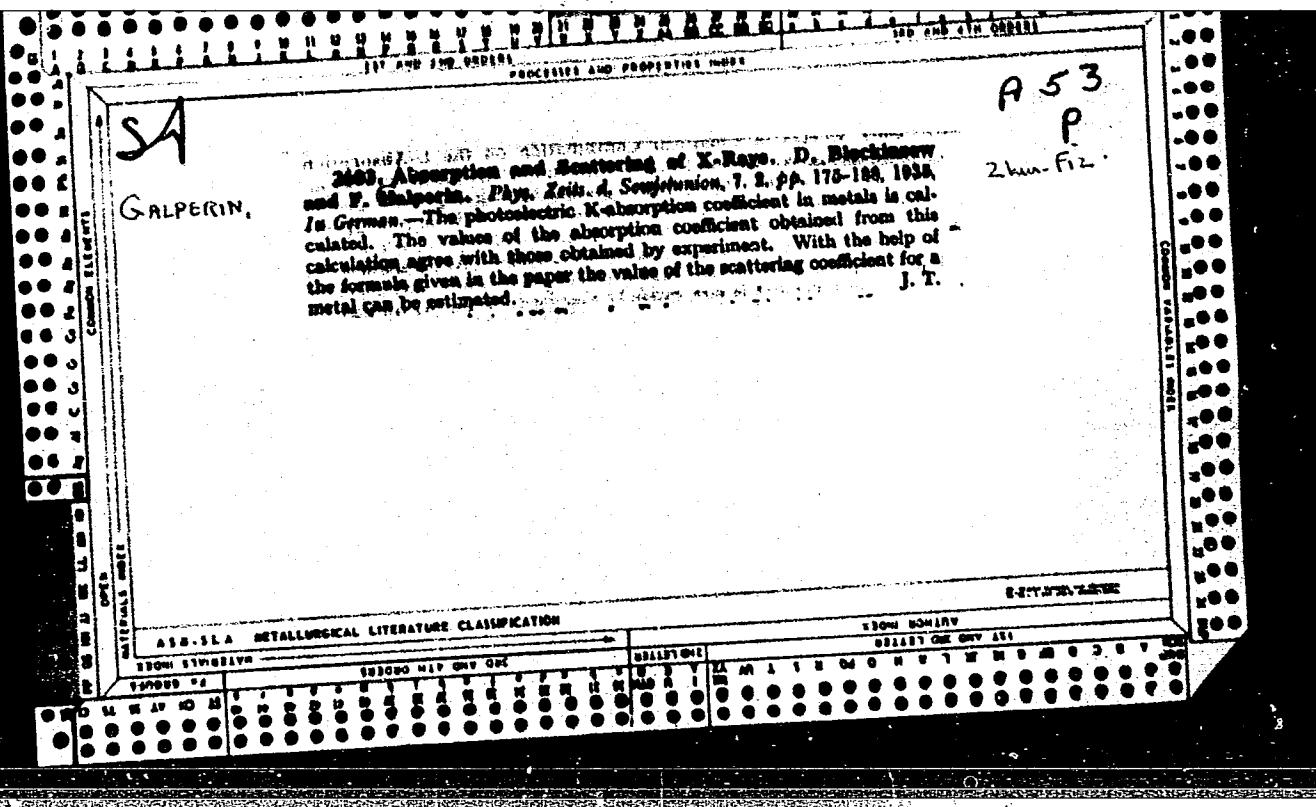


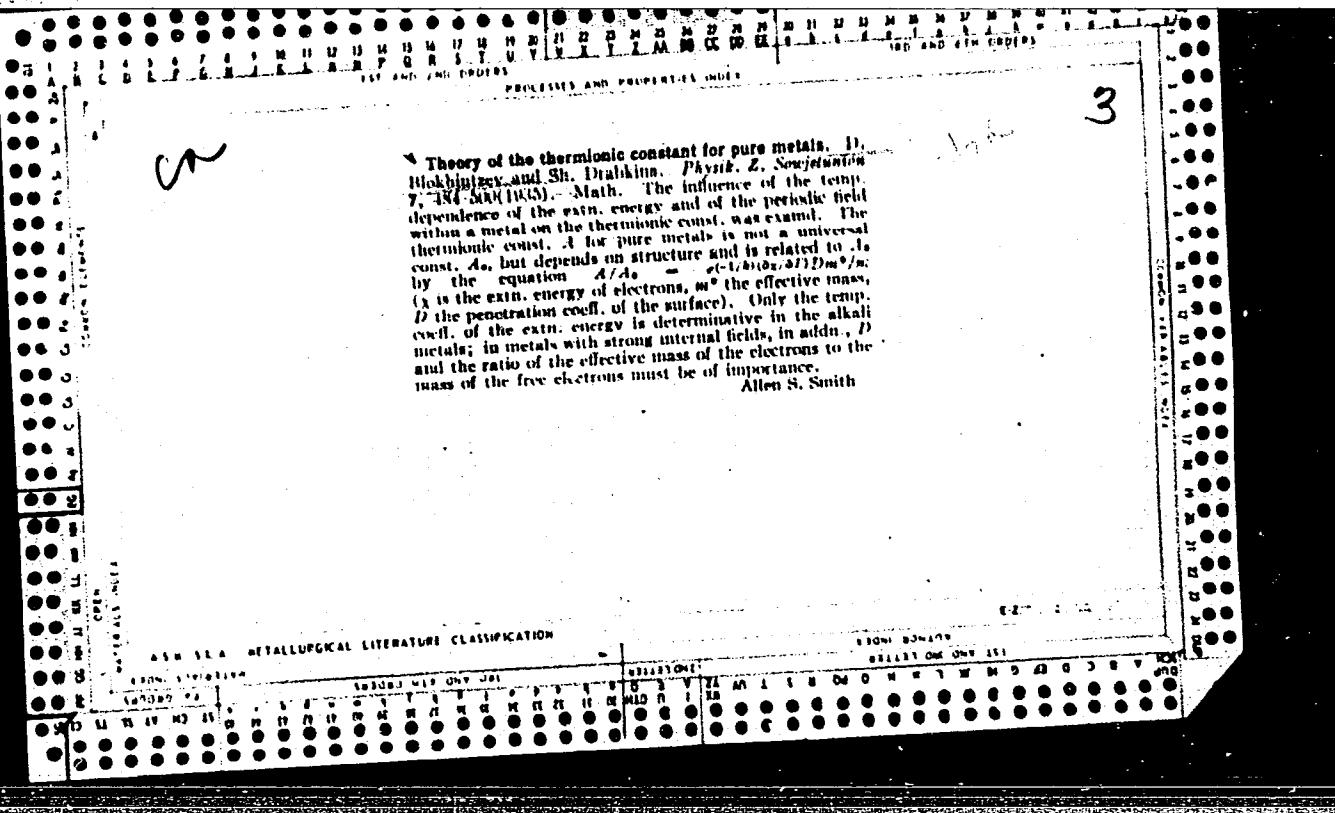


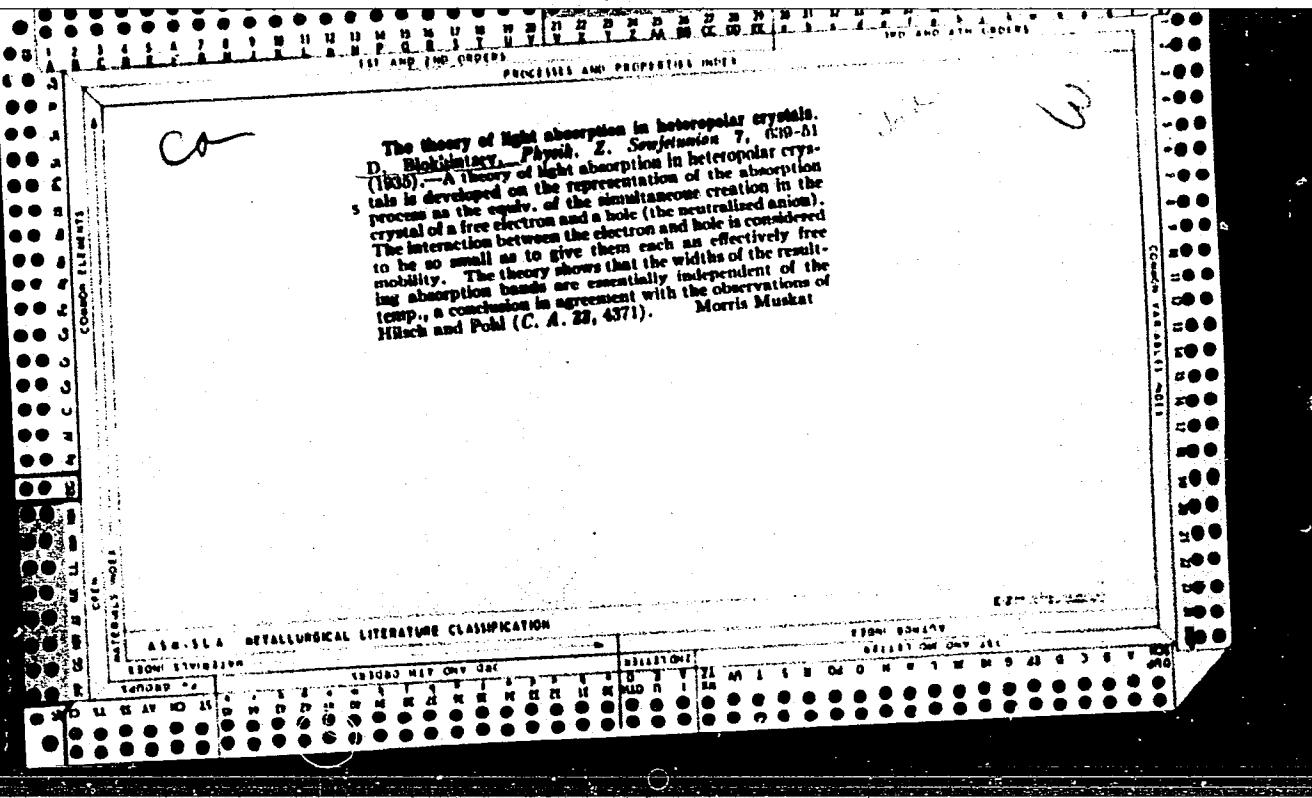


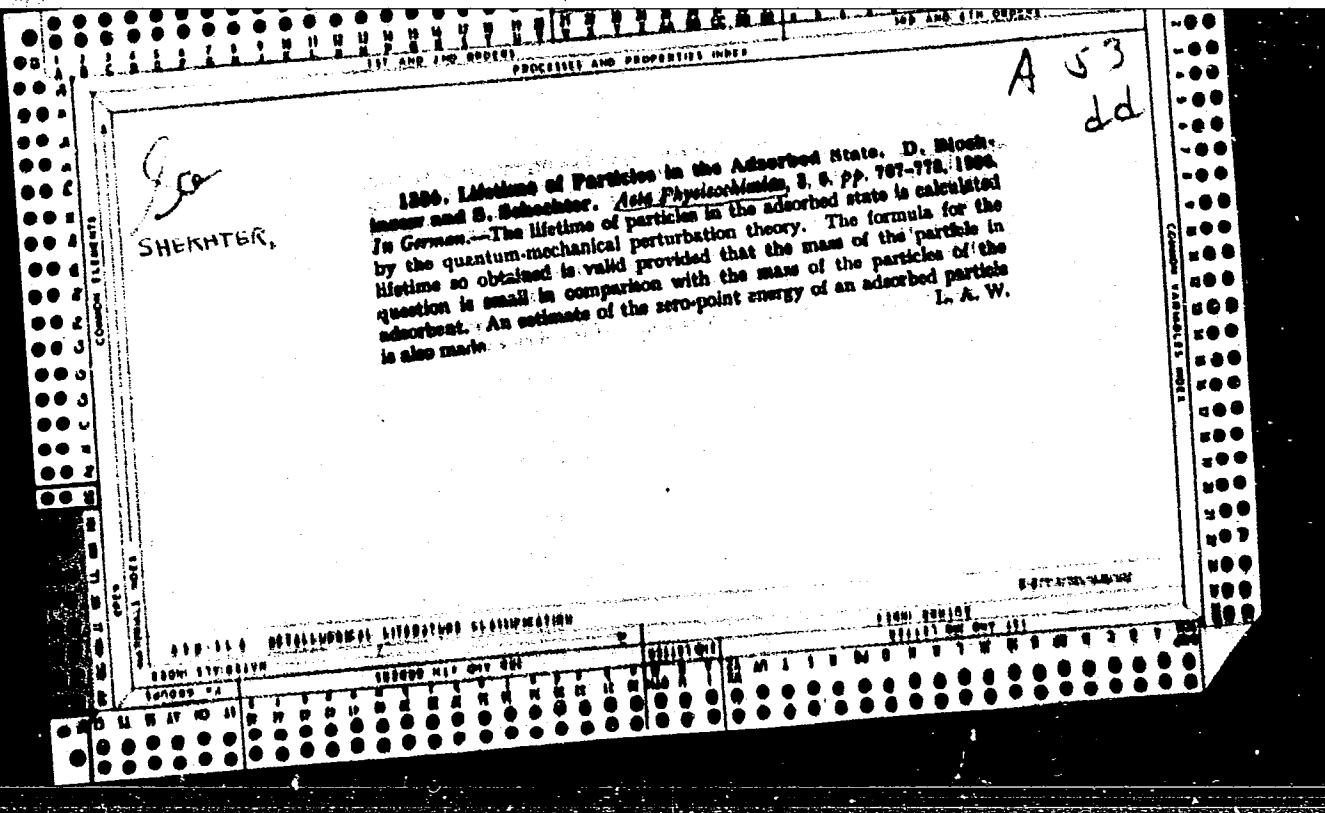


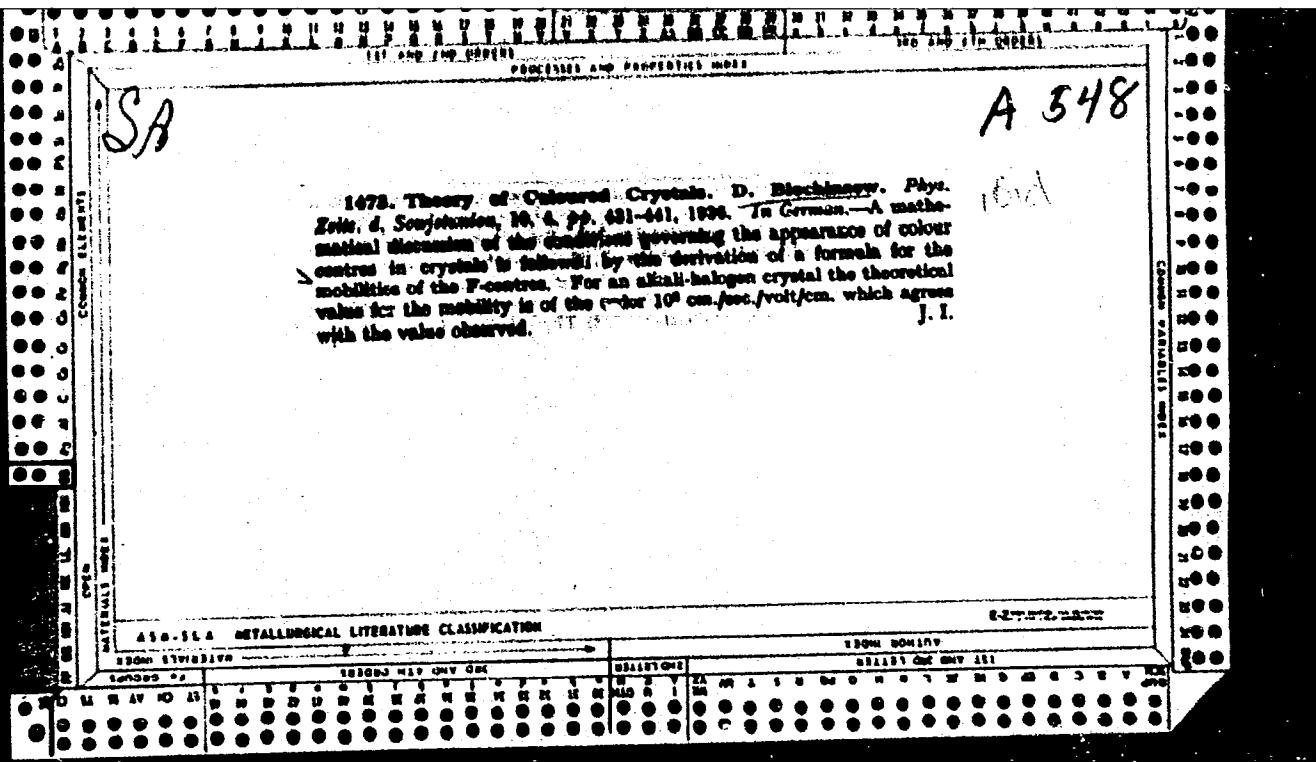


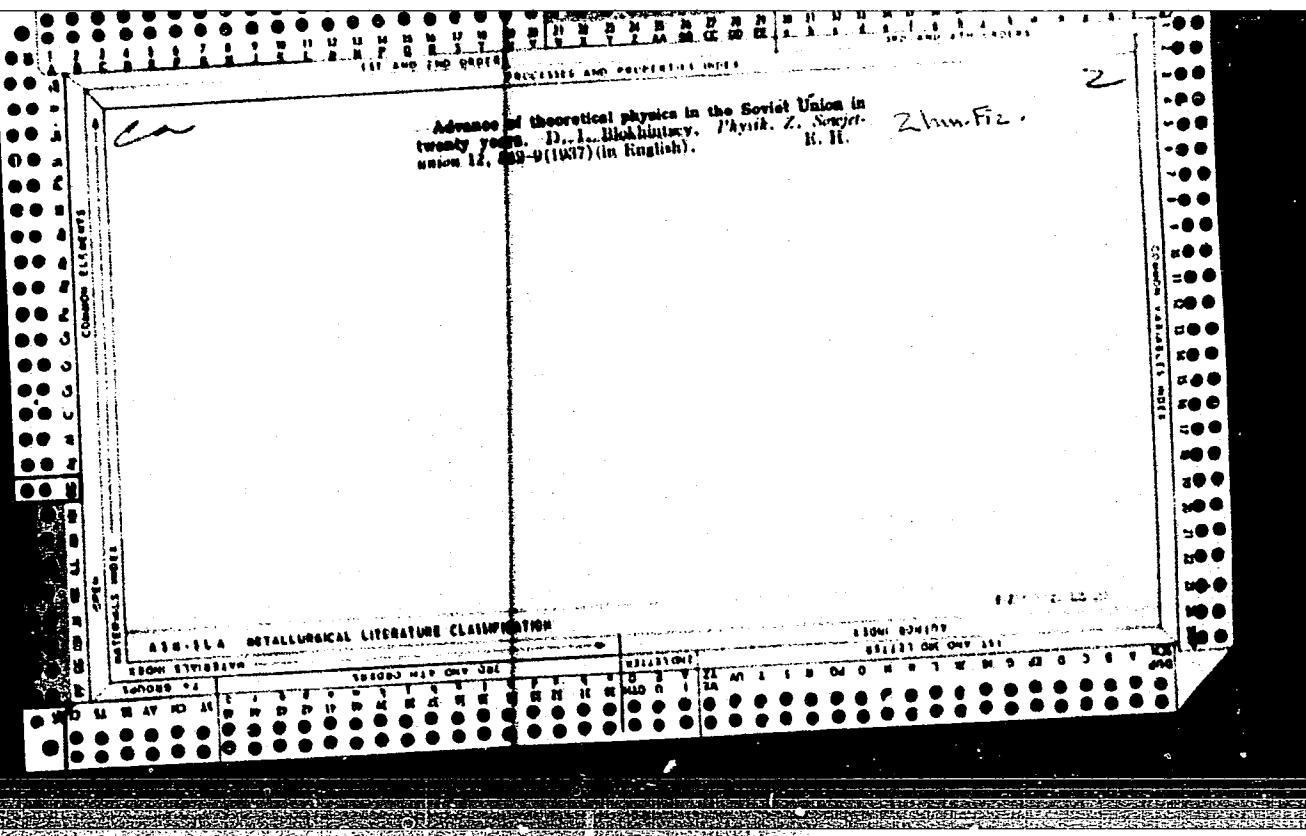


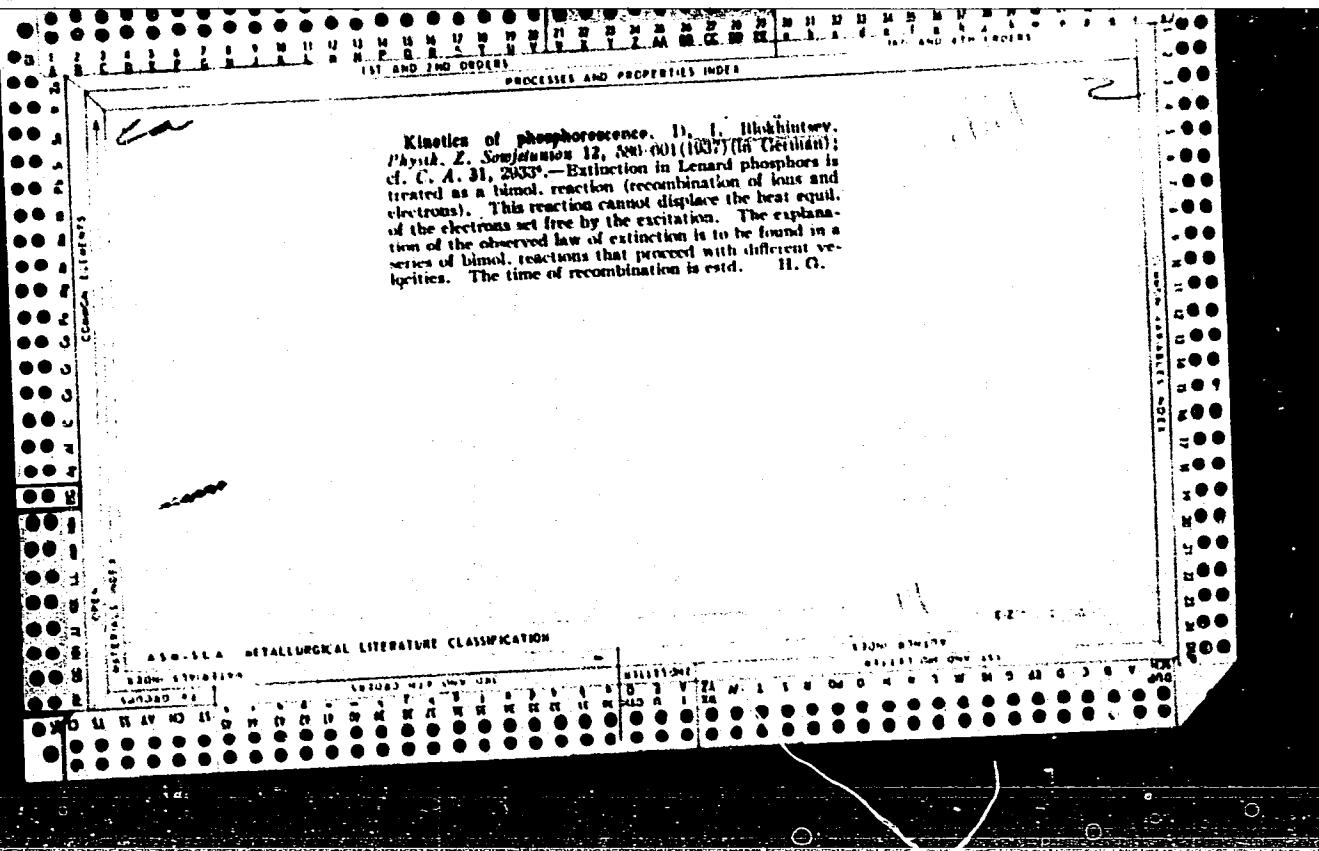


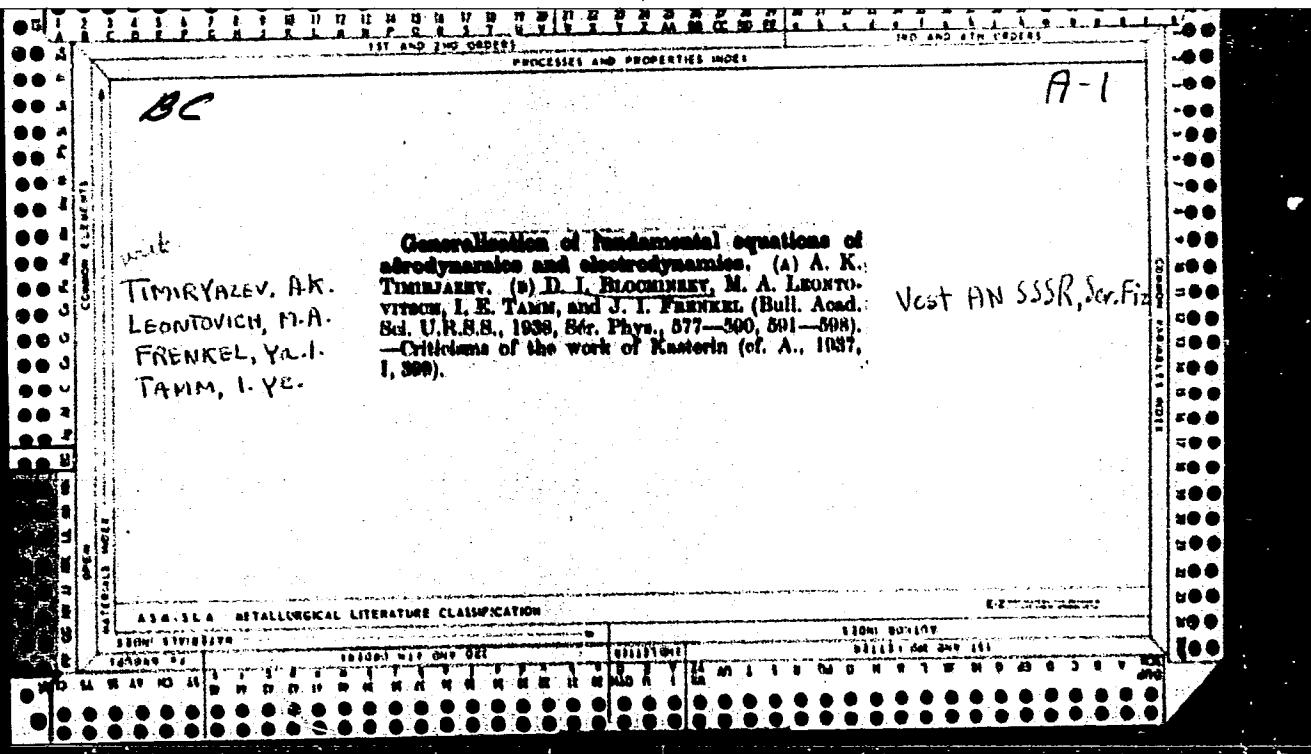


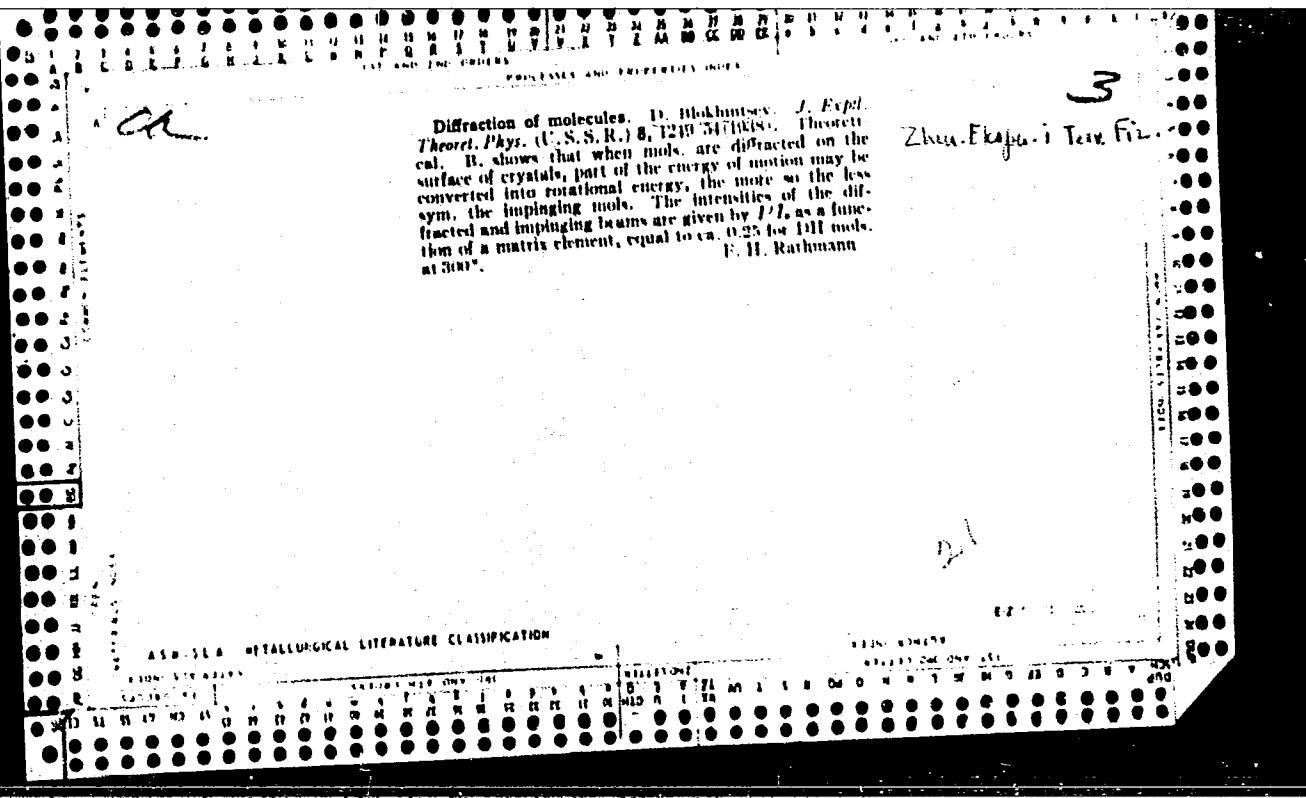


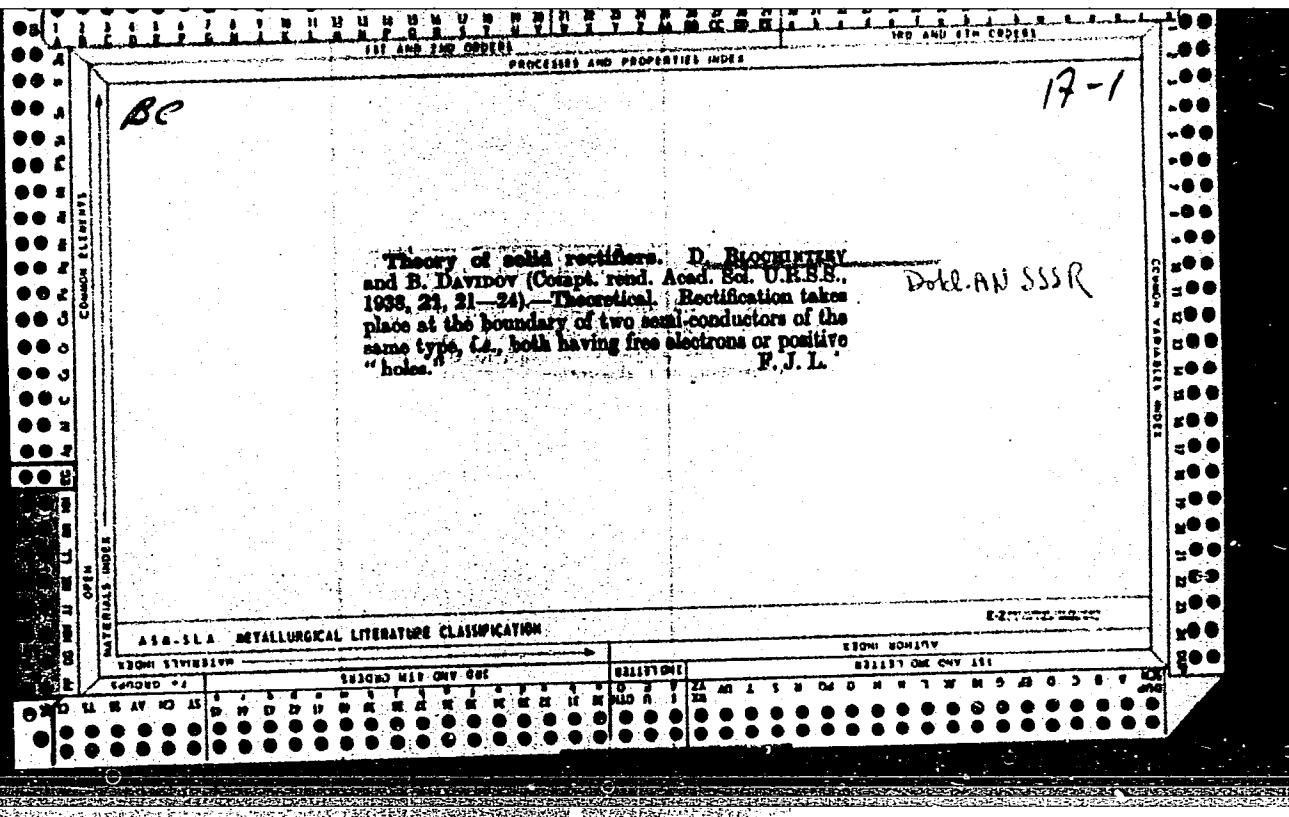


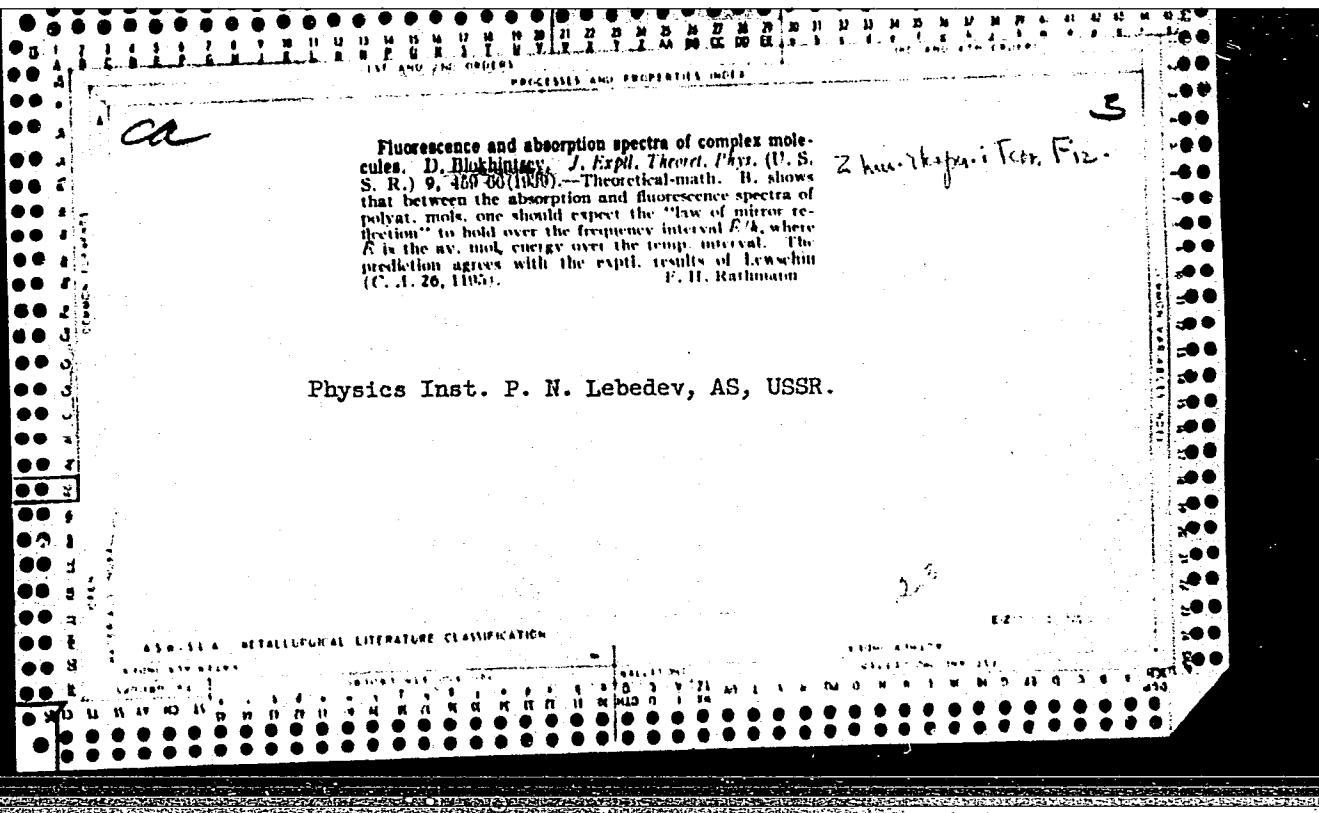


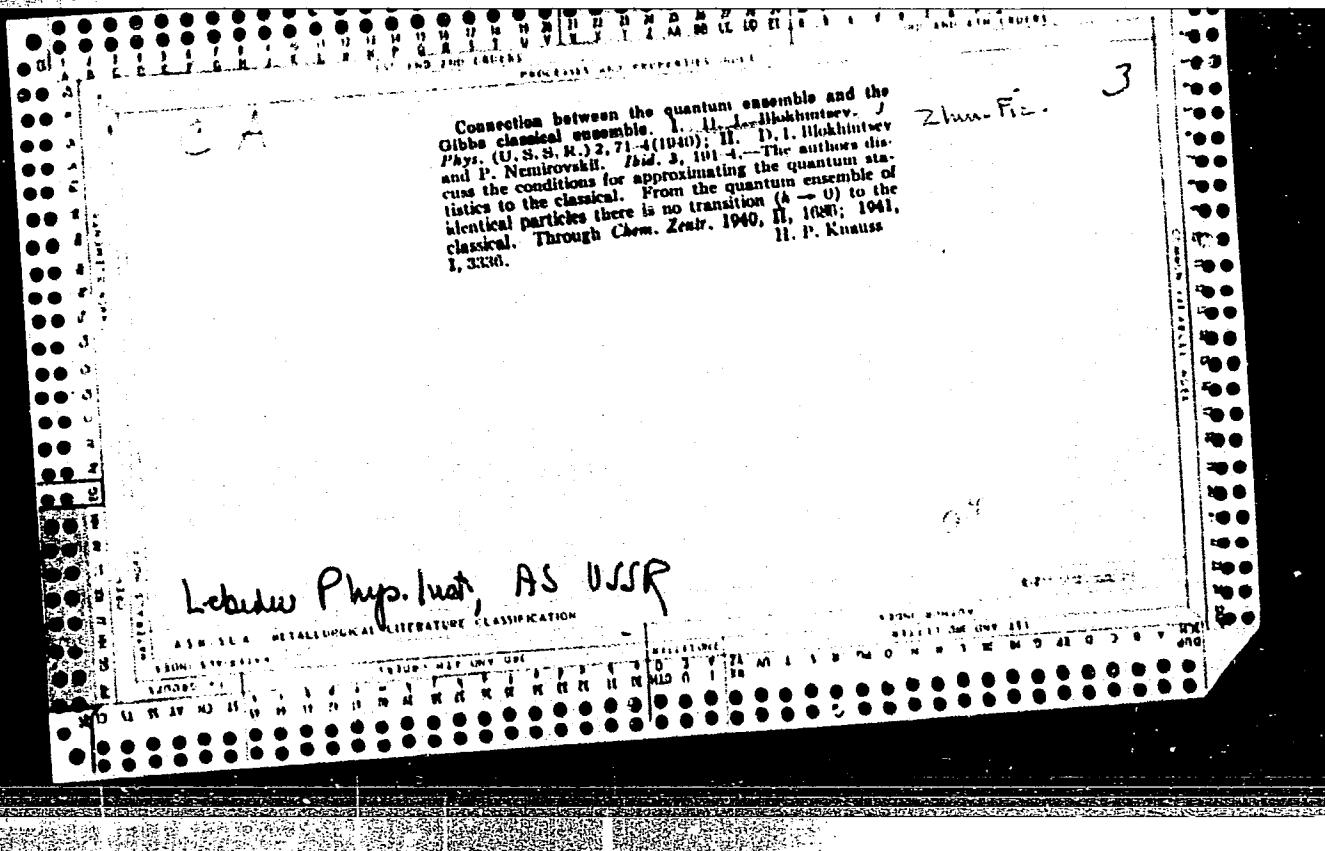












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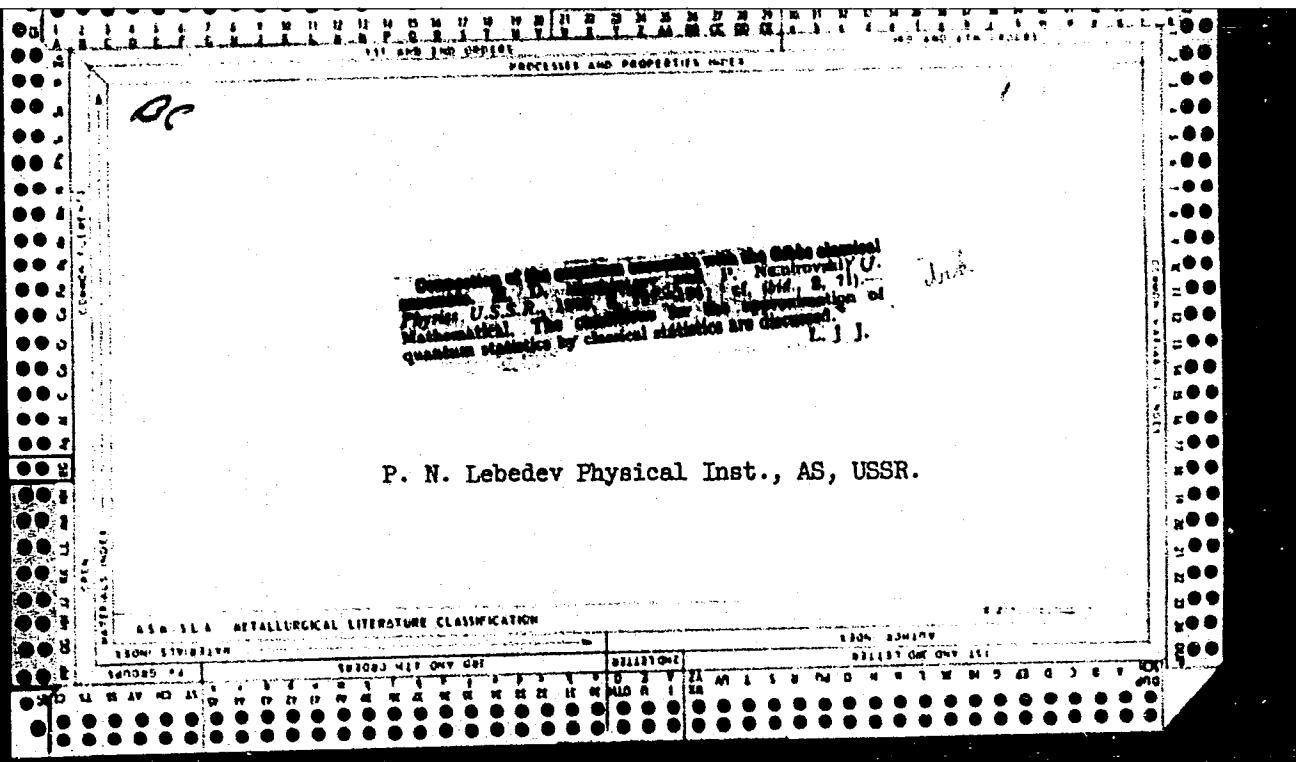
Breakdown in compressed gases at high pressures and small distances. D. I. Blokhintsev, Ya. M. Parnas and Yu. M. Vasil'ev. *J. Phys. Chem. Sib.* 2, 217-229 (1940) (in English).—Breakdown voltages in N_2 at pressures up to 80 kg./sq. cm. with field strengths up to $1.5 \times 10^4 \text{ v./cm.}$ and electrode distances 0.3 mm. with various kinds of electrodes are shown in 11 figs. The magnitude of the breakdown voltage increases roughly linearly with the pressure and is practically independent of the no. of sparks above 10 passed at the rate of 2 per min. up to pressures of 30 kg./sq. cm. From 40 to 80 kg./sq. cm. the breakdown voltage increases with the no. of sparks for up to 20-25 sparks. Anodes and cathodes of Al, Fe, Cu, Pt, and steel gave practically the same values of breakdown potential.

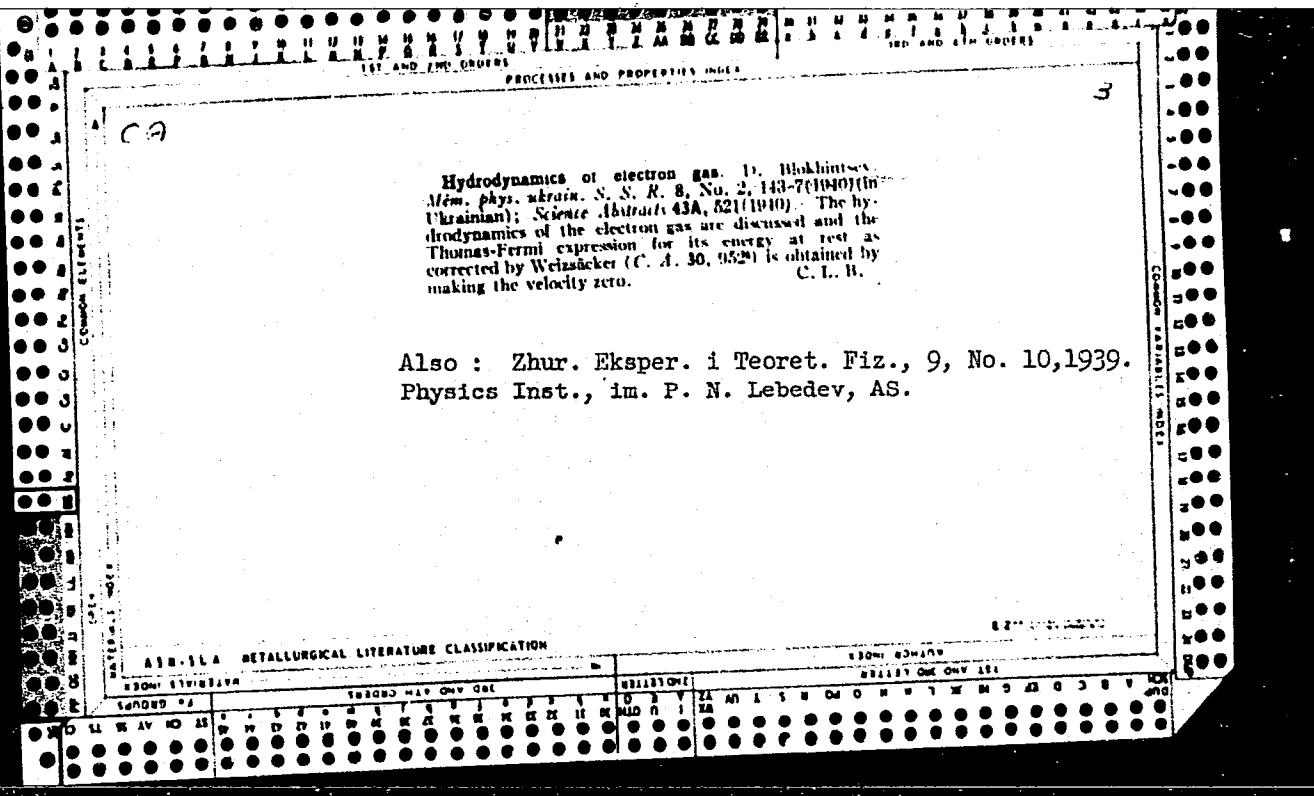
Physics Inst. im. P. N. Lebedev, Dept. Physico-Math. Sci.,
AS.

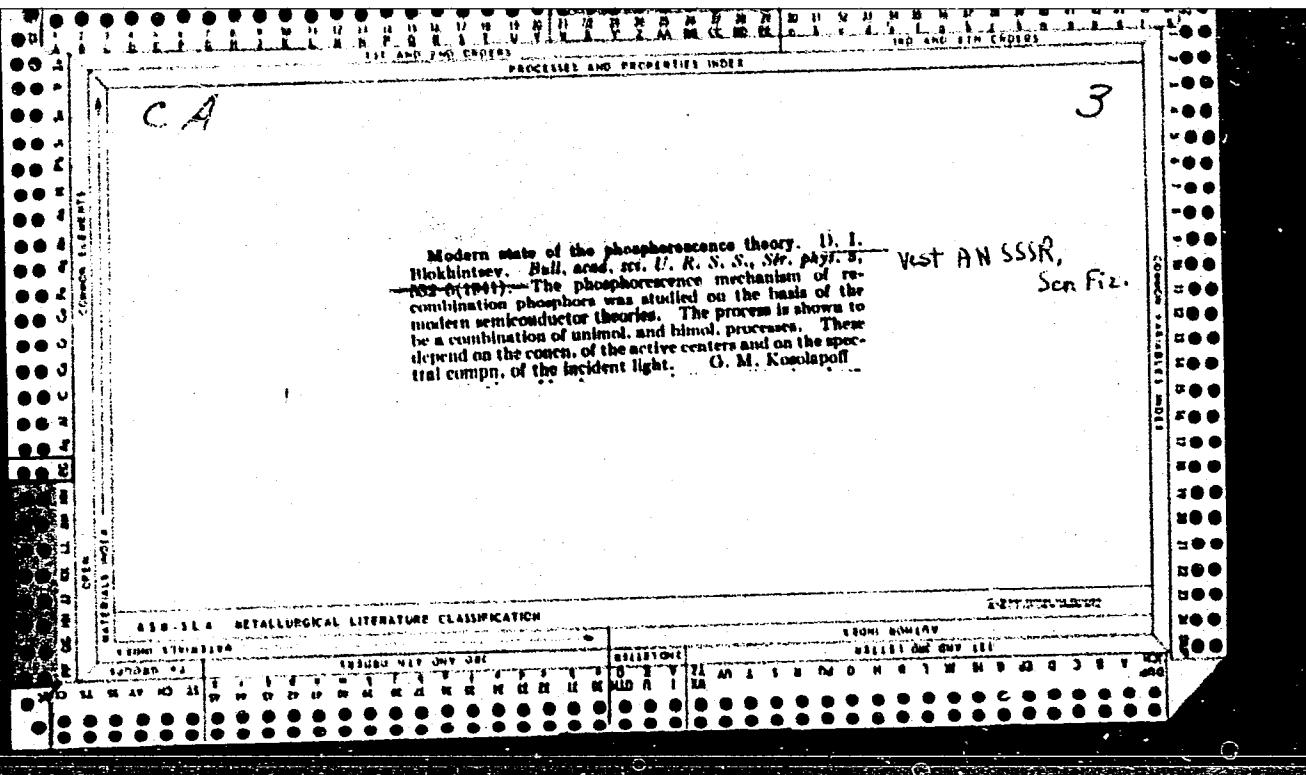
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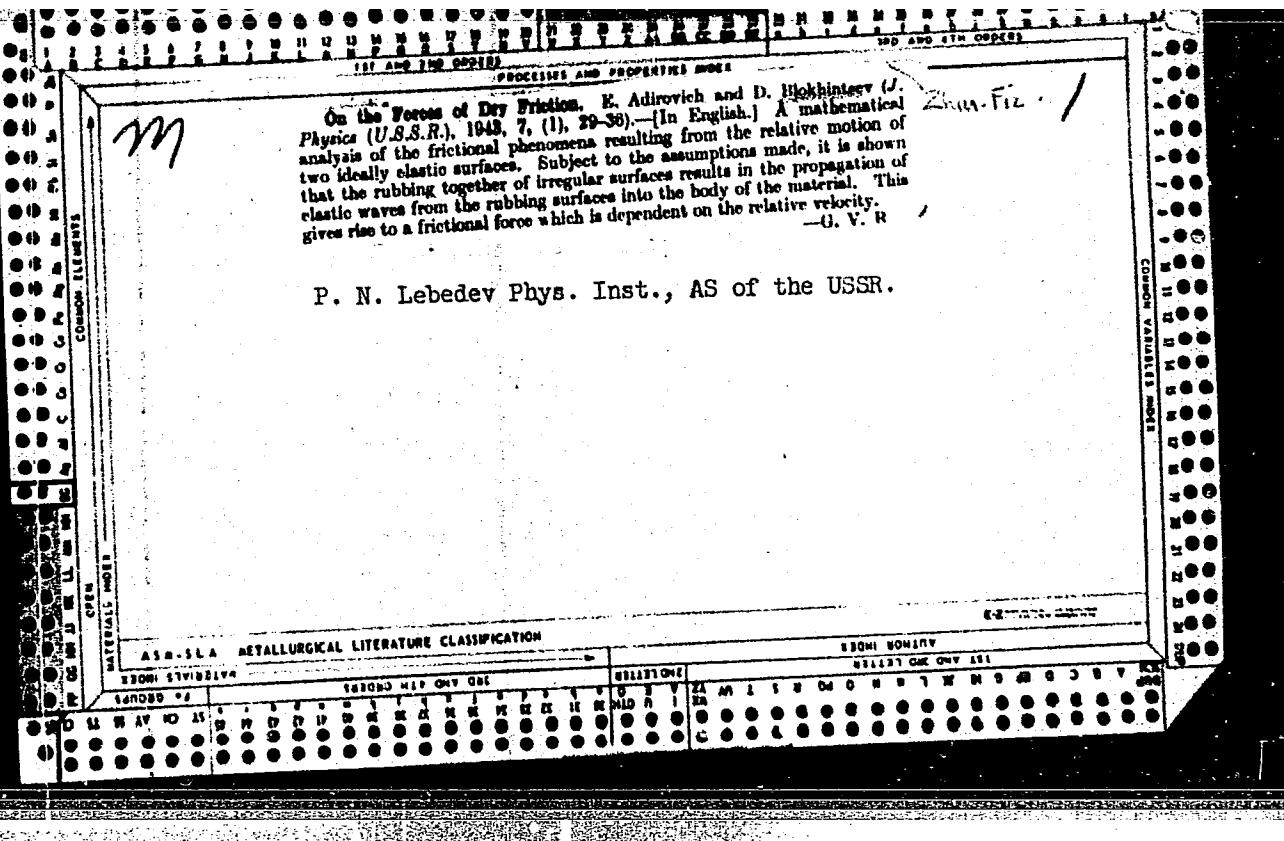
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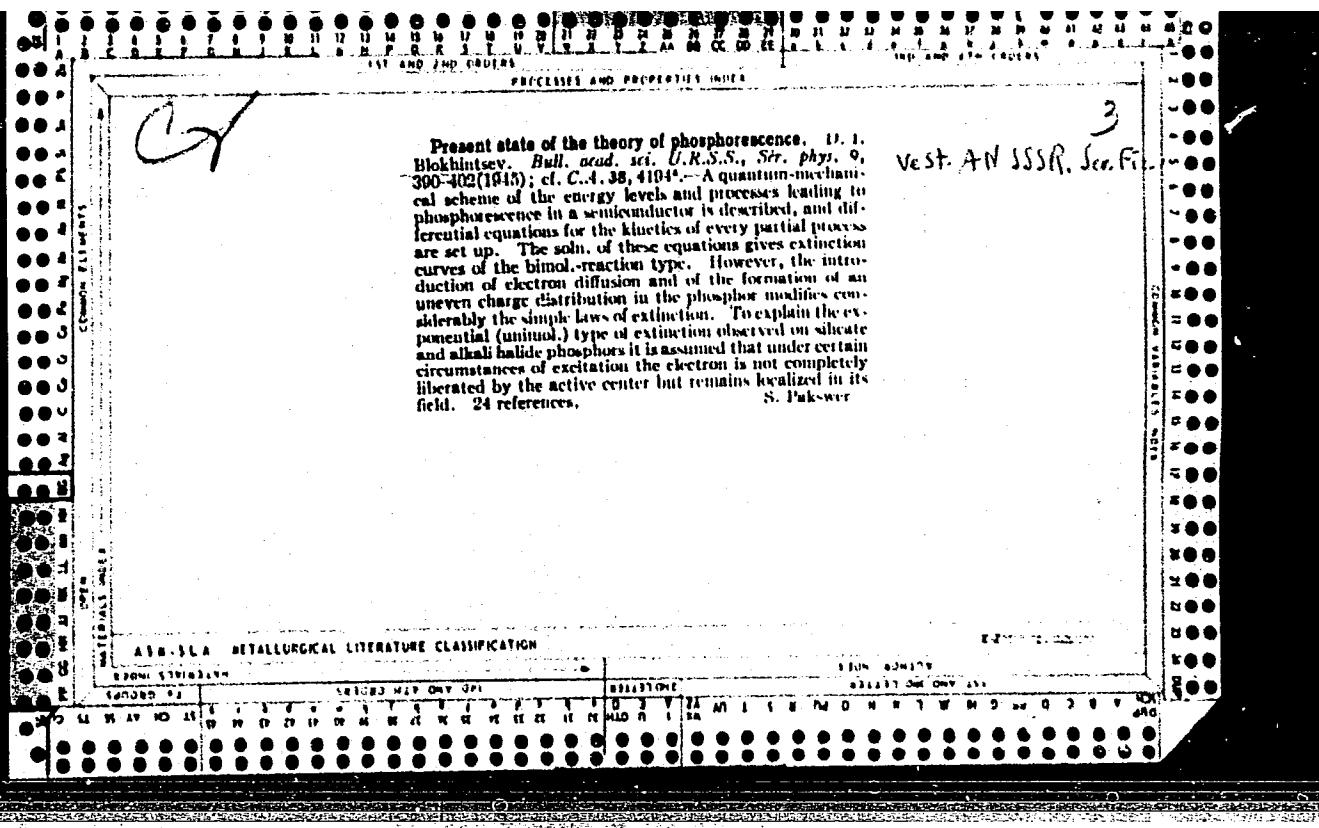
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